INDIAN and NORTHERN AFFAIRS

TRANSMITTAL FORM

M R File No _____
S M R File No _____
Date Fwd 27/2/81

FROM Mining Recorder at Mayo Y.T.

TO Supervising Mining Recorder at Whitehorse, Y.T.

Office of the Supervising Mining Recorder
MAR 2 1981
WHITEHORSE
Yukon Territory

FOR ACTION ARE:

☐ NEW APPL'N for PLACER LEASE to PROSPECT Name

☐ RENEWAL APPL'N PLACER LEASE to PROSPECT: Name. Lease No .....

☐ AFFIDAVIT of EXPENDITURE on PLACER LEASE. Name. Lease No .....

☐ ASSIGNMENT of PLACER LEASE No .....
From: To:

☐ GROUPING APPL'N UNDER SEC. 52(2) PLACER MINING ACT.
Owner

☑ DIAMOND DRILL LOGS
Claims "EPD" 21-22, 50 Claim sheet no. 115-P-15, 16, 9, 10

☐ QUARTZ ASSESSMENT REPORT
Claims: Claim sheet no.

Type of report. Submitted by:

Cls. work performed on: $ Req. for ren application

Signature

cc: GEOLOGY

REPLY ACTION Date Ret

090758

Signature

090758

VENTURE CORTIN

PROJECT

PROPERTY EPD

CAMPBELL RESOURCES INC.
DIAMOND DRILL LOG



LOCATION

GRID

Location 99 + 39.0N

Section 100 + 99.3W

Bearing 350°

Dip -45

Length 128m

TESTS

TROPARI

Depth	Mag Brg	Corr Brg	Dip	Dip²

ACID



SURVEY

Latitude

Departure

Elevation

Bearing

Dip

PHYSICAL DATA

Core Size NQ to 128m , to

Date Started July 26, 1980

Date Completed July 31, 1980

Casing Pulled yes

Core Recovery 98.75%

Cemented No

Core Location: In storage at Oliver Creek camp site 115-P-15



Logged by D.R. Kennedy

Contractor Arctic Diamond Drilling

NOTES: 1) Give reference - Magnetic, Grid, True

2) Corrected dip.

DDH No. 80-05

From	To	Rock Name	Description	CA	From	To	Sample No.
0	3.6		Through overburden. Casing later reamed to 3.7m Pulled upon completion of hole.				
3.6	4.0	Quartzite	Core highly broken up, only pieces recovered. Numerous thin micaceous partings.		3.60 4.00	4.00 4.70	40085 40086
4.0	4.70	Chlorite biotite schist	Dark grey to black. Foliation at 75° to C.A. A few thin quartzite interbeds.	75°			
4.70	5.5	Ground core					
5.5	6.0	Chlorite biotite schist	As above. Foliation at 80°-85° to C.A.	80-85°	5.50	6.00	40087
6.0	7.31	Quartzite	Light grey, fairly massive, vague foliation at 70° to C.A. A number of thin chloritic partings, occasional hairline fractures parallel to C.A. and at 35° to C.A. Slightly rusty.	70°	6.00 7.00 8.00	7.00 8.00 9.00	40088 40089 40090
7.31	7.56	Chlorite biotite schist	Foliation at 70° to C.A.	70°	9.00	9.20	40091
7.56	9.20	Quartzite	Massive as before. contains a few narrow, somewhat chloritic bands. Foliation at 60° to C.A.	60°			
9.20	9.40	Ground core					
9.40	9.72	Quartzite	As above.				

From	To	Rock Name	Description	CA	From	To	Sample No.
9.72	10.95	Chlorite biotite schist	A few narrow quartzite bands. Core highly broken up, mostly chips recovered.		9.40	10.00	40092
			Foliation at 65° to C.A.	65°	10.00	11.00	40093
			10.69-10.75: Quartz stringer at 75° to C.A. Slightly rusty.				
10.95	12.82	Quartzite	Core badly broken up, recovery probably fair.		11.00	12.00	40094
			Foliation at 75° to C.A.	75°			
			A number of fractures at 5°-15° to C.A.		12.00	13.00	40095
			Often rusty.		13.00	14.00	40096
12.82	12.92	Chlorite biotite schist	Dark green. Foliation at 85° to C.A.	85°			
12.92	15.66	Quartzite	Fairly massive, contains estimated 5% chlorite as fine partings.		14.00	15.00	40097
			Foliation at 80° to C.A.	80°			
			Occasional traces disseminated pyrite and pyrrhotite.				
			Occasional fractures at 10°-15° to C.A.				
			Often rusty.				
			15.25-15.28: Quartz stringer at 80° to C.A. Contains 8% chlorite, slightly rusty.				
			15.64-15.66: Quartz stringer at 65° to C.A. Slightly rusty.		15.00	16.00	40098
15.66	16.14	Chloride biotite schist	Foliation at 75° to C.A.	75°	16.00	17.00	40099

From	To	Rock Name	Description	CA	From	To	Sample No.
16.14	16.25	Quartzite	Fairly massive, a few chlorite partings. Vague foliation at 80° to C.A.	80°			
16.25	16.48	Chlorite biotite schist	Foliation at 70° to C.A.	70°			
16.48	16.61	Quartz vein	at 75° to C.A. Slightly rusty. Contains 5% chlorite.				
16.61	17.52	Quartzite	Massive, light grey, contains a few fractures at 15°-25° to C.A.		17.00	18.00	40100
17.52	25.74	Chlorite biotite schist	A few quartzite interbeds, contains a number of 1-2 mm. quartz stringers, parallel to foliation at 70° to C.A.	70°	18.00	19.00	40101
					19.00	20.00	40102
			A few rusty fractures at random angles to C.A.		20.00	21.00	40103
			18.95-19.30: Mostly quartzite with some chlorite biotite bands.		21.00	22.00	40104
			20.49-20.70: Mostly quartzite with some chlorite biotite bands.		22.00	23.00	40105
					23.00	24.00	40106
			21.70-21.85: Mostly quartzite.		24.00	25.00	40107
			23.14-23.18: Quartz stringer at 65° to C.A.		25.00	26.00	40108
			23.47-23.49: Quartz stringer at 80° to C.A.				
25.74	25.98	Quartzite	Massive, vague foliation at 70° to C.A. A few rusty fractures at random angles to C.A.	70°			
25.98	26.66	Chlorite biotite schist	Contains a few narrow quartzite bands. Foliation at 65° to C.A.	65°	26.00	27.00	40109
			26.38-26.40: Quartz stringer at 75° to C.A.				

From	To	Rock Name	Description	CA	From	To	Sample No.
			Rusty. 26.42- : 7 mm. quartz stringers at 75° to C.A. Slightly rusty.				
26.66	29.65	Quartzite	Quite massive, contains fine chlorite and biotite partings, highly contorted, complex folding evident. Occasional hairline fractures at 45° to C.A. Chlorite filled.		27.00 28.00 29.00	28.00 29.00 30.00	40110 40111 40112
29.65	30.10	Chlorite biotite schist	Foliation at 75° to C.A. contains a number of quartz patches with up to 10% chlorite. Generally slightly rusty. 29.90- : 5 mm chlorite seam at 20° to C.A.	75°	30.00	31.00	40113
30.10	31.56	Quartzite	Fairly massive, contains numerous fine chloritic partings, highly contorted. Complexly folded, at least on small scale. 30.45-30.51: Quartz stringer at 70° to C.A. Contains a few fractures filled with chlorite at 15° to C.A.		31.00	32.00	40114
31.56	42.60	Chlorite biotite schist	Foliation at 65° to C.A. Contains a few rusty fractures at random angles to C.A. Occasional narrow quartzite bands. A few narrow quartz stringers present and occasional quartz patches. 32.00-32.30: Quartzite band. 33.24-33.44: Quartzite band. 34.88-35.32: Quartzite band. 35.47-35.50: Quartz stringer at 70° to C.A. Contains 5% chlorite.	65°	32.00 33.00 34.00 35.00 36.00 37.00	33.00 34.00 35.00 36.00 37.00 38.00	40115 40116 40117 40118 40119 40120

From	To	Rock Name	Description	CA	From	To	Sample No.
			35.57-35.59: Quartz stringer at 75° to C.A.		38.00	39.00	40121
			35.83-35.88: Quartz stringer at 65° to C.A. Contains 10% chlorite.		39.00	40.00	40122
			36.40-36.44: Quartz stringer at 70° to C.A.		40.00	41.00	40123
			38.66-38.69: Quartz stringer at 60° to C.A. Slightly rusty.		41.00	42.00	40124
			38.77-38.79: Quartz stringer at 60° to C.A. Slightly rusty.		42.00	42.66	40125
			39.02-39.04: Quartz stringer at 65° to C.A. Contains minor chlorite.				
			39.64-39.65: Quartz stringer at 70° to C.A. Slightly rusty.				
42.60	43.00	Ground core					
43.00	43.96	Chlorite biotite schist	As above. 43.06-43.50: Quartzite band 43.56-43.57: Quartz stringer at 75° to C.A.		43.00	44.00	40126
43.96	44.48	Quartzite	Massive, a few hairline fractures at 15° to C.A.		44.00	45.00	40127
44.48	44.66	Chlorite biotite schist	Foliation at 80° to C.A. A few 1 mm quartz stringers parallel to foliation.	80°			
44.66	46.14	Quartzite	Massive, vaguely foliated at 60°-70° to C.A.	60-70°	45.00	46.00	40128

From	To	Rock Name	Description	CA	From	To	Sample No.
			Occasional (FeMn?) stained fractures at random angles to C.A. 45.53-45.55: Quartz stringers 85° to C.A. Slightly rusty. 45.63-45.64: Quartz stringer at 75° to C.A. 45.80-45.88: Quartz stringer at 75° to C.A. Slightly rusty.		46.00	47.00	40129
46.14	52.30	Chlorite biotite schist	Contains several narrow quartzite bands. Foliation generally 75° to C.A. 46.55-46.88: Several narrow quartzite bands. 46.94-46.95: Quartz stringer at 80° to C.A. 47.12-47.18: Mud seam, soft mud recovered. 47.23-47.35: Quartzite band. 47.53-47.59: Quartz patch. 47.70-48.18: Quartzite band. 48.77-49.10: Quartzite band. 49.19-49.30: Quartzite band. 49.78-50.30: Quartzite band. 51.20-51.72: Quartzite band.	75°	47.00 48.00 49.00 50.00 51.00 52.00	48.00 49.00 50.00 51.00 52.00 53.00	40130 40131 40132 40133 40134 40135
52.30	53.86	Quartzite	Contains a number of chlorite and biotite partings at 75° to C.A. 53.06- . : 5 mm chlorite seam at 20° to C.A.		53.00	54.00	40136
53.86	54.80	Chlorite biotite schist	Contains a number of very fine quartz stringers parallel to foliation at 65°-70° to C.A.	65-70°	54.00	54.80	40137

From	To	Rock Name	Description	CA	From	To	Sample No.
54.80	55.00	Quartz vein	32° to C.A. Lower contact		54.80	55.00	40000
55.00	55.17	Chlorite biotite schist	Well banded with up to 30% quartz as 1 mm stringers and few stringers up to 5 mm banding 45° to C.A.	45°	55.00	55.17	40001
55.17	55.50	Quartzite	Few chloritic bands, banding 55° to C.A.	55°	55.17	55.50	40002
55.50	55.73	Chlorite biotite schist	Dark green with numerous 1 mm quartz stringers parallel to foliation at 63° to C.A.	63°	55.50	55.73	40003
55.73	55.90	Quartzite	Gradational with schist - quartz rich section, slightly rusty.		55.73	55.90	40004
55.90	59.32	Chlorite biotite schist	Contains several quartzite bands to 1 cm. Lightly folded and sheared. Contains a few quartz stringers up to 1 cm parallel to foliation at 55°-65° to C.A. 58.2-59.1: Core very soft, about half recovery is mud and rock chips.	55-65°	55.90 56.90 57.90 58.90	56.90 57.90 58.90 59.32	40005 40006 40007 40008
59.32	61.27	Quartzite	Fairly massive, contains a number of x-cutting tension gashes at 40°-55° to C.A. Foliation vague at 70°-75° to C.A.	70-75°	59.32 60.32	60.32 61.27	40009 40010
61.27	61.72	Chlorite biotite schist	Dark green, foliation at 65°-70° to C.A.	65-70°	61.27	61.72	40011
61.72	61.85	Quartzite	Fairly massive		61.72	61.85	40012
61.85	61.95	Chlorite biotite schist	As above.		61.85	61.95	40013

From	To	Rock Name	Description	CA	From	To	Sample No.
61.95	63.40	Quartzite	Light grey, fine grained, contains a few fractures at 5°-15° to C.A. A few narrow sections up to 1 cm are chloritic 63.33-63.37: Quartz vein at 80° to C.A. 63.32-63.34: Quartz vein at 75° to C.A.		61.95 62.95 63.40	62.95 63.40 63.80	40014 40015 40016
63.40	63.80	Chlorite biotite schist	Similar to above. Foliation 75° to C.A.	75°			
63.80	64.74	Quartzite	As above. Contains a few tension fractures at 10°-20° to C.A. Several quartz stringers with minor chlorite up to 1 cm at 70°-75° to C.A.		63.80	64.74	40017
64.74	64.87	Quartz vein	Slightly rusty, obvious water seam at 64.80 at 43° to C.A.		64.74	64.87	40018
64.87	66.75	Choritic Quartzite	Mostly quartzite, but with numerous narrow chloritic bands at 65° to C.A. contains several quartz stringers up to 1 cm, generally at 65°-70° to C.A.	65°	64.87 65.87	65.87 66.75	40019 40020
66.75	68.70	Chlorite biotite schist	Medium grey green, section contains more sericite or muscovite than previous, occasional quartz stringers up to 5 mm, generally parallel to foliation at 80° to C.A.	80°	66.75 67.75	67.75 68.70	40021 40022
68.70	69.10	Quartzite Breccia	Quartzite fragments (35%) up to 3 mm in fine grained dark green chloritic matrix.		68.70	69.10	40023
69.10	69.37	Quartz vein	At 30° to C.A., fractured at 10° and at 85° to C.A. Fractures filled with chlorite and ?tourmaline.		69.10	69.37	40024

From	To	Rock Name	Description	CA	From	To	Sample No.
69.37	70.05	Quartzite	Medium to light grey, fine grained. Numerous micaceous (usually chloritic) partings generally at 80° to C.A. A few narrow (less than 1 cm) sections are quite chloritic.		69.37	70.05	40025
70.05	70.35	Chlorite biotite schist	As before		70.05	70.35	40026
70.35	71.00	Quartzite	As in previous section		70.35	71.00	40027
71.00	71.70	Chlorite biotite schist	Contains several narrow quartzite bands and a few quartz stringers up to 5 mm parallel to foliation at 75° to C.A.	75°	71.00	72.00	40028
71.70	72.53	Quartzite with inter-banded schist	Quartzite with several narrow chloritic schist interbands.		72.00	73.00	40029
72.53	78.90	Quartzite	Contains up to 7% chlorite as fine partings, generally at 80° to C.A. A few sections show tight chevron folding. Very occasional quartz stringers up to 1 cm at 70°-80° to C.A.	80°	73.00 74.00 75.00 76.00 77.00 78.00	74.00 75.00 76.00 77.00 78.00 79.00	40030 40031 40032 40033 40034 40035
78.90	79.74	Chlorite biotite schist	Contains 5% unidentified black mineral, with rhombic x-section as disseminations. Grains up to 1 mm (stauralite?). Section feels talcy		79.00	80.00	40036

From	To	Rock Name	Description	CA	From	To	Sample No.
79.74	80.28	Quartzite	Very fine grained, contains a few narrow micaceous (biotite?) bands at 75° to C.A.	75°	80.00	81.00	40037
80.28	80.63	Chlorite biotite schist	Generally massive. Fairly fine grained dark green-brown. Foliation 73° to C.A.	73°			
80.63	81.00	Quartzite	Contains several narrow chloritic bands at 70° to C.A.	70°			
81.00	81.70	Biotite schist	Possible original tuff, more homogenous, less micaceous and fine grained than normal. Contacts very fine grained, contains 5-10% chlorite and biotite generally aligned at 75° to C.A. Several traces pyrite in hairline fractures at 30°-40° to C.A.		81.00	82.00	40038
81.70	81.83	Quartz vein	Contacts 75° to C.A. Somewhat rusty.				
81.83	82.10	Quartzite	Contains several narrow chlorite biotite bands. Banded 75° to C.A., occasional narrow, rusty fractures at 55°-60° to C.A.	75°	82.00	83.00	40039
82.10	82.85	Chlorite biotite schist	Contains a number of 1-2 mm quartz stringers parallel to foliation at 75°-80° to C.A. 82.56-82.58: Quartz stringer with 15% chlorite at 75° to C.A.				
82.85	83.33	Quartzite	Quite massive, contains a few tension gashes at 30° to C.A., filled with white calcareous mud.		83.00	84.00	40040
83.33	86.27	Chlorite biotite schist	Foliation generally at 80° to C.A. Some local variation contains a number of quartz patches up to 8 cm.	80°	84.00 85.00 86.00	85.00 86.00 87.00	40041 40042 40043

From	To	Rock Name	Description	CA	From	To	Sample No.
			Generally slightly rusty. 83.36-83.42: Quartz stringer at 85° to C.A. Contains several chlorite patches. 83.85-83.88: Quartz stringer at 80° to C.A. Contains several chlorite streaks.				
86.27	86.38	Quartzite	Contains several fractures at 35° to C.A. filled with soft black (FeMn?) stain.				
86.38	87.00	Chlorite biotite schist	As before.				
87.00	91.54	Quartzite	Contains numerous hairline micaceous partings, foliation generally at 80° to C.A. Occasional chloritic sections, some tight folding evident on small scale.	80°	87.00 88.00 89.00 90.00	88.00 89.00 90.00 91.00	40044 40045 40046 40047
91.54	92.52	Biotite chlorite schist	Dark grey to black, finely banded schist, foliation at 75° to C.A. Odd traces disseminated pyrite. Small scale folding evident. 92.22-92.29: Quartzite band.	75°	91.00 92.00	92.00 93.00	40048 40049
92.52	92.90	Quartzite	Fairly massive, contains a few fractures filled with white calcareous material. 92.79: 8 mm quartz stringer at 80° to C.A.				
92.90	93.68	Chlorite biotite schist	Contains several narrow quartz stringers parallel to foliation at 80° to C.A. Some narrow quartzite bands within section (93.13-93.18, 93.27-93.33, 93.54-93.63)		93.00	94.00	40050

From	To	Rock Name	Description	CA	From	To	Sample No.
93.68	97.75	Quartzite	Contains numerous narrow chloritic partings. Highly contorted, very complexly folded on a small scale. Occasional fractures nearly parallel to C.A. coated with black (FeMn?) mineral. 94.10-94.15: Quartz vein containing 7% chlorite as narrow bands, contacts 80° to C.A. Some fractures within vein at 10° to C.A. 96.11-96.14: Quartz vein at 85° to C.A. 96.20-96.21: Quartz vein at 85° to C.A. 96.56-96.58: Quartz vein at 65° to C.A. 97.34-97.47: Quartz vein at 75° to C.A. contains 10% chlorite.		94.00 95.00 96.00 97.00	95.00 96.00 97.00 98.00	40051 40052 40053 40054
97.75	98.85	Chlorite schist	Dark green, fine grained. Contains several quartz stringers up to 1 cm. Contacts irregular; pinching and swelling. evident.		98.00	99.00	40055
98.85	99.33	Quartzite	Similar to above. Complexly folded.				
99.33	99.40	Chlorite schist	Similar to above.				
99.40	100.40	Green schist	Possibly originally a tuff; hard, contains a few splashes pyrite, occasional biotite bands at 60°-65° to C.A.		99.00 100.00	100.00 101.00	40056 40057
100.40	102.75	Chlorite biotite schist with quartzite bands	Mostly chloritic schist with quartzite interbeds. 100.2 sand seam at 25° to C.A. 100.6 7 mm quartz stringer at 57° to C.A. contains est. 15% pyrrhotite. 101.1 2 cm quartz stringer at 70° to C.A. slightly rusty.		101.00 102.00	102.00 103.00	40058 40059

From	To	Rock Name	Description	CA	From	To	Sample No.
102.75	103.02	Quartzite	Massive, contains some chlorite clots. Odd fracture at 0°-10° to C.A. filled with black (FeMn?) material.				
103.02	103.80	Chlorite biotite schist	Dark grey green, with some narrow quartzite bands. Occasional fractures x-cutting foliation. 103.22-103.26: Quartz stringer at 75° to C.A. Contains 15% chlorite, 103.34-103.39: Quartz stringer at 60° to C.A. Contains 10% chlorite, 103.46-103.50: Quartz stringer at 50° to C.A. Contains 10% chlorite, contacts are waxy, 103.80-103.93: Quartz stringer at 70° to C.A.		103.00 104.00	104.00 105.00	40060 40061
103.80	104.00	Ground core					
104.00	104.30	Chlorite biotite schist	As above 104.16-104.30: Quartz stringer at 70° to C.A. Contains 15% chlorite.				
104.30	105.30	Chlorite biotite schist	Dark green with black biotite bands at 80° to C.A. 104.50: Tension gashes filled with white, slightly calcareous material at 20° to C.A. 105.10: 1 cm quartz stringer at 80° to C.A. 105.15: 7 mm quartz stringer at 70° to C.A.		105.00	106.00	40062

From	To	Rock Name	Description	CA	From	To	Sample No.
105.30	105.87	Quartzite	Fairly massive. A few (FeMn?) filled fractures at 65° to 75° to C.A. Section slightly rusty. 105.35-105.45: Quartz stringer at 85° to C.A. Highly fractured at 50° to 70° to C.A. Fractures filled with black (FeMn?) stain.				
105.87	106.40	Chlorite biotite schist	Rusty medium grey, somewhat contorted foliation 45° to 70° to C.A.	45-70°	106.00	107.00	40063
106.40	107.30	Quartzite	Contains several micaceous partings. Several slightly rusty bands. Foliation at 80° to C.A. 107.18 7 mm chlorite band at 75° to C.A. 107.26-107.30: Quartz stringer, upper contact 70° to C.A. Lower contact 55° to C.A. Several rusty fractures and occasional chlorite patches.	80°	107.00	108.00	40064
107.30	107.87	Chlorite biotite schist	Contains several cross-cutting, rusty fractures at 55° to C.A. 107.55-107.59: Quartz stringer at 75° to C.A. Contains several rusty fractures at 15° to C.A. 107.63-107.66: Quartz stringer at 40° to C.A. Contains several rusty fractures at 65° to C.A.				

From	To	Rock Name	Description	CA	From	To	Sample No.
			107.75-107.77: Quartz stringer at 55° to C.A. Contains several rusty fractures at 80° to C.A.				
107.87	108.30	Quartzite	Contains many fine chloritic partings and a few chloritic bands. Several fine rusty seams. Foliation at 85°-90° to C.A. 107.89 : 1 cm band containing 20% black oxidized sulphide at 75° to C.A. Few traces pyrite and sphalerite. 108.10-108.12: Quartz stringer at 80° to C.A. Contains 10% chlorite. 108.15-108.16: Quartz stringer at 60° to C.A. Contains traces chlorite. 108.19- : 1 cm band black sulphides containing traces chalcopyrite at 65° to C.A.	85-90°	108.00	109.00	40065
108.30	109.33	Chlorite biotite schist	Contains numerous 1-3 mm quartz stringers parallel to foliation at 75° to C.A. 108.43 : 1.5 cm quartz stringer with irregular contacts generally at 70° to C.A. 108.52-108.55: Quartz stringer, slightly rusty at 75° to C.A. 108.70-108.77: Quartz stringer, slightly rusty at 70° to C.A.		109.00	110.00	40066
109.33	110.95	Quartzite	Contains a few chloritic bands, fairly massive, vague foliation at 65° to C.A.		110.00	111.00	40067

From	To	Rock Name	Description	CA	From	To	Sample No.
			Several quartz stringers and patches up to 2 cm. Generally rusty. A few 1 mm. rusty seams parallel to foliation. 109.60-109.70: Estimate 25% quartz as irregular patches. 109.72-109.79: Chloritic section. 109.86-109.89: Chloritic section. 109.89-110.06: Estimate 30% quartz as patches, somewhat vuggy. 110.30-110.56: Estimate 40% quartz as patches, slightly rusty.				
110.95	111.18	Chlorite biotite schist	Some slightly rusty sections. Foliation at 65° to C.A. 111.17 : 1 cm quartz stringer at 50° to C.A.	65°	111.00	112.00	40068
111.18	111.81	Quartzite	As above. Foliation at 75° to C.A. 111.44-111.60: Chloritic section, contains 50% quartz. Slightly rusty, vuggy.	75°	112.00	113.00	40069
111.81	112.06	Chlorite biotite schist	Somewhat rusty. Foliation at 45° to C.A. 111.82 : 1.5 cm quartz stringer at 75° to C.A.				
112.06	113.30	Quartzite	Fairly massive, vague foliation at 55° to C.A. Contains numerous rusty vugs and rusty hairline fractures at 45°-50° to C.A. 112.55 : 5 mm quartz stringer at 55° to C.A.		113.00	114.00	40070
113.30	116.12	Chlorite biotite schist	Dark grey. Foliation at 50°-70° to C.A. Several narrow rusty bands, parallel to foliation. 113.78-113.85: Quartz stringer at 70° to C.A.		114.00 115.00	115.00 116.00	40071 40072

From	To	Rock Name	Description	CA	From	To	Sample No.
			Contains 7% chlorite, traces sphalerite and pyrite. 115.05-115.28: Estimate 15% quartz as patches.				
116.12	119.30	Quartzite	Quite massive. Vague foliation at 80° to C.A. Numerous narrow micaceous partings. 116.14 : Fracture nearly parallel to C.A. Coated with red-rusty sulphide stain.	80°	116.00 117.00 118.00 119.00	117.00 118.00 119.00 120.00	40073 40074 40075 40076
119.30	120.45	Interbanded biotite schist and quartzite	Foliation at 75°-80° to C.A. Some narrow rusty fractures at random angles to C.A. 120.24-120.45: Highly contorted, complex folding evident.	75-80°	120.00	121.00	40077
120.45	121.94	Quartzite	Fairly massive contains a number of chloritic interbands, vague foliation at 75° to C.A. A few rusty fractures generally at 70° to C.A. 121.05 : 1.3 cm quartz stringer at 75° to C.A. Slightly rusty. 121.72 : 5 mm quartz stringer at 60° to C.A. 121.83-121.85: Quartz patch, slightly rusty.	75°	121.00	122.00	40078
121.94	122.12	Biotite chlorite schist	Dark grey. Foliation at 75° to C.A.		122.00	123.00	40079
122.12	122.60	Quartzite	Fairly massive, contains 15% quartz as patches. A number of hairline fractures at				

From	To	Rock Name	Description	CA	From	To	Sample No.
			70° to C.A. filled with white calcareous material. Occasional fracture at 15° to C.A. coated with rusty red-brown material.				
122.60	122.91	Chlorite biotite schist	Highly altered, rusty. Contains abundant (FeMn?) staining.				
122.91	125.38	Amphibolite	Greenstone dyke, amphibolite composition, chilled margins, well developed. Contacts 75° to C.A. 122.92-122.96: Quartz stringer at 70° to C.A. Contains a number of tension gashes at 60° to C.A. 123.05-123.34: Highly altered, soft; fractured. Fractures coated with FeMn stained material. 123.34-123.44: Soft, chips only recovered. Obviously vuggy quartz, some tourmaline present. 123.46 : Rusty (FeMn?) stained fractures at 35° to C.A. Cut by 5 mm rusty quartz stringer at 25° to C.A. 125.11-125.38: Contains est. 50% quartz as patches up to 1 cm. (assimilated from quartzite?)		123.00 124.00 125.00	124.00 125.00 126.00	40080 40081 40082
125.38	128.00	Quartzite	Fairly massive, contains several narrow biotite-chlorite bands, foliation at 85° to C.A.	85°	126.00 127.00	127.00 128.00	40083 40084

From	To	Rock Name	Description	CA	From	To	Sample No.
			125.33-125.42: Quartz stringer at 75° to C.A. Contains 15% chlorite.				
			125.42-126.00: Interbanded schist and quartzite. Est. 35% biotite schist present.				
			125.90 : A few traces sphalerite.				
			126.50 : 1 cm quartz stringer at 75° to C.A.				
			127.25 : 1 cm quartz stringer at 30° to C.A., contains 5% chlorite.				
			127.57 : 1.5 cm quartz stringer 75° to C.A. Slightly rusty.				
			127.60-127.90: Chlorite-biotite rich section.				
	128.0	END OF HOLE					

CAMPBELL RESOURCES INC.
DIAMOND DRILL LOG

VENTURE CORTIN

PROJECT

PROPERTY EPD

LOCATION

GRID

Location 99 + 39.3N
Section 100 + 75.5W
Bearing 350° true
Dip -45°
Length 130.5m

TESTS

TROPARI

Depth	Mag Brg	Corr Brg	Dip
30.5m			
61.0			
91.4m			
121.9m			

ACID

Dip*
-45°
-45°
-45°
-48°

SURVEY

Latitude
Departure
Elevation
Bearing
Dip

PHYSICAL DATA

Core Size NQ to 130.5m , to
Date Started August 2, 1980
Date Completed August 7, 1980
Casing Pulled Yes
Core Recovery 98.25%
Cemented No
Core Location: In storage at Oliver Creek camp site 115-P-15

Logged by D.R. Kennedy
Contractor Arctic Diamond Drilling

NOTES: 1) Give reference - Magnetic, Grid, True
2) Corrected dip.

DDH No. 80-06

From	To	Rock Name	Description	CA	From	To	Sample No.
0.0	6.90	Casing	Through overburden, casing reamed to 9.8				
6.90	8.10	Chlorite biotite schist	Dark grey to black, finely foliated at 70° to C.A. A few fine rusty fractures parallel or sub-parallel to foliation.	70°			
8.10	8.80	Ground Core					
8.80	8.87	Chlorite biotite schist	As above.				
8.87	9.04	Quartzite	Light grey, fine grained, contains a number of fine micaceous partings, occasional narrow (up to 5mm) quartz stringers at random angles to C.A. Vague foliation 65-70° to C.A.	65-70°			
9.04	9.50	Quartz Vein	Contains 15% chlorite, contacts 50° to C.A.				
9.50	11.55	Quartzite	As above. 10.20-10.27: Quartz patch, very slightly rusty. 10.56-10.75: A few quartz patches, very slightly rusty. 11.35-11.40: Several fractures at 50-75° to C.A. Rusty alteration surrounds these fractures.				
11.55	12.40	Chlorite biotite schist	As above. Contains occasional 1-2mm quartz stringers parallel to foliation at 70-80° to C.A. Section highly broken up.	70-80°			
12.40	12.60	Ground Core					
12.60	12.90	Quartzite	Fairly massive, contains a few narrow chlorite partings, vague foliation at 70° to C.A.	70°			

From	To	Rock Name	Description	CA	From	To	Sample No.
12.90	13.00	Ground Core					
13.00	13.54	Quartzite	Massive, contains a few narrow chlorite biotite bands, particularly in lower part of section.				
13.54	13.72	Quartz Vein	Contains 10% chlorite.				
13.72	13.90	Chlorite biotite schist	Dark grey to black, foliation at 65° to C.A.	65°			
13.90	14.87	Quartzite	Grey, contains a few quartz stringers up to 5 mm parallel to vague foliation at 55° to C.A. Contains a few biotite chlorite bands.	55°			
14.87	15.86	Interbedded schist and quartzite	Mostly schist, with several quartzite bands up to 10 cm, typically 1-2 cm. Slightly rusty, evidence of complex folding. Foliation generally 75° to C.A. 15.57 : 1 cm quartz stringer at 75° to C.A. Slightly rusty. 15.76 : 1 cm quartz stringer at 75° to C.A.	75°			
15.86	18.10	Quartzite	Grey, fairly massive, contains abundant biotite and chlorite partings. Highly crinulated. Foliation generally at 75° to C.A. Traces fine disseminated pyrite). 15.86-15.90: Quartz stringer at 65° to C.A. 15.95 : 1.5 cm quartz patch, rusty vein. 16.02-16.06: Quartz stringer at 80° to C.A. Slightly rusty, contains traces chlorite.	75°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			16.28-16.38: Quartz stringer at 70° to C.A. Contains minor chlorite and traces black (FeMn?) mineralization. 16.50-16.69: Quartz stringer at 70° to C.A. Rusty, contains narrow chlorite seams, traces pyrite. 16.80 : 7 mm quartz stringer at 70° to C.A. 16.83 : 5 mm quartz stringer at 60° to C.A. Contains 5% chlorite. 16.91 : 1 cm quartz stringer at 75° to C.A. 16.97-17.17: Quartz vein at 75° to C.A. Slightly rusty, a few hairline fractures at 20-30° to C.A. 17.67-17.73: Estimate 35% quartz as irregular patches, contains minor chlorite.				
18.10	19.17	Schist with quartzite interbands	Complexly folded at least in small scale, a number of oval shaped patches quartzite or schist in core, general foliation at 75° to C.A. 18.24 : 7 mm quartz patch. 18.40-18.45: Rusty quartz stringer at 75° to C.A. Contains traces chlorite and biotite. 18.61-18.63: Rusty quartz stringer at 80° to C.A. A few traces chlorite. 18.80-18.95: A number of narrow, rusty quartz stringers and patches, generally 75° to 80° to C.A.	75°			

From	To	Rock Name	Description	CA	From	To	Sample No.
19.17	20.00	Quartzite	Contains fine chlorite, biotite partings. Foliation generally at 75° to C.A. 19.20 : 1.2 cm quartz stringer at 35° to C.A. Contains minor chlorite, slightly rusty. 19.27 : 4 mm quartz stringer at 60° to C.A. Contains traces chlorite. 19.57-19.68: Quartz stringer at 70° to C.A. Contains 7-8% chlorite. 19.72 : Quartz stringer, upper contact 75° to C.A. Lower contact 65° to C.A. Contains 8% chlorite. 19.82-19.84: Rusty quartz stringer at 75° to C.A. 19.90-20.00: Rusty, crinulated section.	75°			
20.00	22.40	Chlorite biotite schist	Dark grey to black. Foliation generally at 65°-70° to C.A. Occasional narrow quartzite bands generally less than 5 cm. 20.12 : 3.5 cm quartz patch, slightly rusty, contains minor chlorite. 20.52 : 3 cm quartz patch, rusty. Contains 5% chlorite. 20.70-20.80: Quartzite band. 20.80-20.85: Quartz stringer at 50° to C.A. Contains 5% chlorite, slightly rusty. 20.90-21.00: Quartz stringer at 75° to C.A. Contains 5% chlorite. 21.00-21.30: Core highly broken up, mostly chips recovered. Probably several narrow	65-70°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			quartz stringers with minor chlorite present. 22.26 : 5 mm quartz stringer at 75° to C.A.				
22.40	22.85	Ground Core					
22.85	24.78	Chlorite biotite schist	As above. 22.85-22.90: Quartzite band. 23.53-24.10: A number of 1-5 mm rusty seams parallel to foliation at 70° to C.A. 24.48 : 3 mm quartz stringer at 65° to C.A. 24.34-24.37: Rusty quartz stringer at 70° to C.A. Contains 5% chlorite.	70°			
24.78	25.30	Quartzite	Fairly massive, contains a number of chlorite biotite partings. Foliation at 70° to C.A. 25.04-25.05: Quartz stringer at 70° to C.A. Contains traces chlorite. 25.18-25.30: A number of rusty quartz patches up to 5 cm.	70°			
25.30	27.33	Chlorite biotite schist	Contains a few narrow quartzite bands. Foliation at 75° to C.A. Can be locally contorted. 25.60-25.63: Vuggy quartz patch. Slightly rusty. 25.75-25:76: Quartz patch, slightly rusty. 25.86 : 7 mm quartz stringer at 70° to C.A. 26.24 : 5 mm quartz stringer at 70° to C.A. Slightly rusty.	45-75°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			26.30-26.33: Rusty quartz stringer at 60° to C.A. Contains traces chlorite. 26.40-26.90: A number of narrow, rusty bands parallel to foliation at 45°-70° to C.A. 26.90-27.12: Quartzite band.				
27.33	27.70	Ground Core					
27.70	29.81	Schist with narrow quartzite interbands	As above. 28.25-28.50: A number of narrow, rusty seams parallel to foliation at 60° to C.A. 28.70-29.20: Quartzite band. 29.20-29.25: Rusty section.	60°			
29.81	30.70	Quartzite with a number of biotite chlorite seams	Light grey, fairly massive, with black biotite chlorite seams, up to 5 cm. Foliation at 70° to C.A. 30.10-30.20: A few hairline fractures at 15° and 60° to C.A.	70°			
30.70	32.34	Quartzite	Quite massive, contains a number of fine biotite chlorite partings. Foliation at 75° to C.A. 30.70-31.00: Fractured at 15° and 35° to C.A. Section slightly rusty. 31.02-31.08: Irregular quartz patch, contains 10% chlorite. 31.70-32.15: A number of fractures at 40° and 30° to C.A. Coated with back (FeMn?) mineralization. 31.95-32.10: Some fractures filled with siderite?	75°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			32.20 : 1 cm pyrite bleb.				
32.34	32.55	Chlorite biotite schist	Section somewhat rusty. Foliation at 65° to C.A. 32.50-32.55: Quartz stringer, slightly rusty, at 75° to C.A.	65°			
32.55	33.55	Quartzite	Fairly massive, vague foliation at 70° to C.A. Contains a number of fine biotite chlorite partings and occasional biotite chlorite schist bands. 32.60-32.78: A number of hairline fractures at 35° and 70° to C.A. 32.80-33.11: Mostly chlorite biotite schist. 32.80-32.88: Soft, rusty schist. 33.00 : 3 cm quartz patch. 33.12-33.17: Quartz stringer at 80° to C.A. Contains 10% chlorite.	70°			
33.55	35.19	Chlorite biotite schist	Contains a few narrow quartzite bands. Foliation at 70° to C.A. Varies locally to 50° to C.A. 34.00-34.25: Quartzite band, fractures at 15° and 55° to C.A. 34.31 : 5 mm quartz stringer at 65° to C.A. 34.37 : 4 cm quartz patch. 34.45-34.80: Highly contorted, contains a number of quartz stringers up to 3 mm.	70°			
35.19	36.80	Quartzite	Massive, vague foliation at 70° to C.A. Fractured at 70° and at 20° to C.A. Fractures generally chlorite filled.	70°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			36.18-36.21: Quartz stringer at 70° to C.A. Slightly rusty, contains 5% chlorite, a few rusty fractures at 40° and at 10° to C.A. 36.45-36.56: Quartz stringer at 70° to C.A. Contains several rusty fractures at 40° and at 10° to C.A. 36.56-36.80: Several fractures at 35° and at 5-10° to C.A. Section slightly rusty.				
36.80	37.75	Biotite chlorite schist	Dark green-grey to black. Strong foliation at 60-70° to C.A. Can be locally contorted. Contains a few narrow quartzite bands. 37.48-37.51: Quartz stringer at 70° to C.A. 37.63 : 5 mm quartz stringer at 85° to C.A.	60-70°			
37.75	39.20	Quartzite	Light grey, contains numerous chlorite-biotite partings, foliation at 65-70° to C.A. fractured. Fractures predominantly at 40° and 10° to C.A. Contains a few irregular quartz patches up to 2 cm. 38.25-38.32: Quartz patch. 38.71-38.75: Quartz stringer at 75° to C.A. Contains rusty vugs and fractures at 40° and 10° to C.A. 38.89-38.97: Quartz stringer at 80° to C.A., slightly rusty. Contains 20% wallrock.	65-70°			
39.20	41.45	Schist with quartzite interbands	Mostly biotite chlorite schist, with several narrow quartzite bands usually less than 5 cm.	70°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			Foliation at 70° to C.A. 39.40-39.70: Lightly brecciated, contains 60% quartz as matrix to chlorite-biotite schist. Lightly rusted, occasional quartz patches up to 1 cm. 39.70-39.79: Quartzite band. 40.10-40.25: Quartzite band. 40.35-40.64: Quartzite band. 40.60 : 4 mm quartz stringer at 65° to C.A. 40.64-40.65: Quartz stringer at 60° to C.A. 41.14-41.15: Quartz stringer at 75° to C.A. 41.44 : 7 mm quartz stringer at 70° to C.A.				
41.45	46.89	Biotite chlorite schist	Dark grey to black, contains a few very narrow quartzite bands, generally less than 1 cm. 41.68-41.69: Quartzite band. 41.90-42.60: Highly contorted section. Locally highly crinulated, contains estimated 10% quartz as 1-2 mm, highly contorted stringers. Contains a few rusty fractures generally at 70-75° to C.A. 42.94-42.99: Quartz stringer at 55° to C.A., slightly rusty. 42.99-43.38: A number of narrow quartzite bands. 43.43-43.80: Contains a number of siderite? filled fractures				

From	To	Rock Name	Description	CA	From	To	Sample No.
			at 20° to C.A.				
			43.68-43.70: Rusty quartz stringer at 70° to C.A.				
			43.77-43.78: Rusty quartz stringer at 65° to C.A.				
			43.89 : 1 cm white granular quartz stringer at 35° to C.A.				
			44.25-44.27: Rusty seam at 70° to C.A.				
			44.83-44.85: Quartz stringer, slightly rusty at 55° to C.A.				
			44.97-45.01: Quartz stringer.				
			45.06 : 6 mm quartz stringer at 30° to C.A.				
			45.28-45.31: Quartzite band.				
			45.45-45.47: Quartz stringer at 60° to C.A. Slightly rusty.				
			45.47 : Complexly folded, contains numerous 1 mm quartz stringers parallel to foliation at 45-70° to C.A. A few rusty 1 mm seams.				
			46.62-46.65: Quartz stringer at 75° to C.A.				
			46.80-46.82: Quartz patch, slightly rusty.				
46.89	54.22	Schist with quartzite interbands	Similar to above, but quartzite accounts for 50% of rock. Quartzite bands typically 10 cm.				
			46.89-47.00: Quartzite band, contains a few fractures at 70-75° to C.A.				
			47.00-47.09: Contains several 5 mm quartz stringers at 70° to C.A.				
			48.04-48.50: Mostly quartzite. A few narrow biotite-chlorite seams at 70° to C.A.				

From	To	Rock Name	Description	CA	From	To	Sample No.
			48.73-48.74: Quartz stringer at 65° to C.A.				
			48.81-48.91: Irregular quartz patch, slightly rusty.				
			49.08-49.10: Quartz stringer at 70° to C.A.				
			49.25-49.27: Very rusty quartz stringer at 75° to C.A.				
			49.30-49.40: Quartz stringer at 75° to C.A. Slightly rusty.				
			49.47-49.48: Rusty fractured quartz stringer at 75° to C.A.				
			49.56-49.60: Slightly rusty quartz stringer at 70° to C.A. Contains 5% chlorite.				
			49.68-49.70: A number of tension gashes filled with quartz.				
			49.80 : Fold hinge.				
			50.19-50.21: Rusty quartz stringer at 75° to C.A.				
			50.80 : Inflection in foliation from 45° to 75° to C.A.				
			51.00 : Fold hinge in quartzite section.				
			51.48-51.70: A number of quartz filled fractures at 10° to C.A.				
			51.69 : 4 mm quartz stringer at 65° to C.A.				
			51.78 : 7 mm quartz stringer at 70° to C.A.				
			52.06-52.07: Slightly rusty quartz stringer at 65° to C.A.				
			52.85-52.87: Quartz stringer at 65° to C.A., slightly rusty. Contains 5% chlorite.				
			53.04 : 1 cm quartz stringer at 65° to C.A. Slightly rusty.				

From	To	Rock Name	Description	CA	From	To	Sample No.
			53.39 : 2 mm quartz stringer at 60° to C.A. 53.73 : 4 mm rusty band at 75° to C.A.				
54.22	55.10	Grey dyke??	Diorite? Light grey, fine grained, lightly fractured at 35° to 45° to C.A. Fractures generally rusty, margins fine grained Contacts at 65° to C.A., possibly a crystal tuff.				
55.10	58.58	Schist with a quartzite interband	80% biotite chlorite schist with a number of short quartzite bands, typically 2-3 cm. Foliation at 70° to C.A. 56.30-56.33: Quartz stringer, slightly rusty, at 60° to C.A. Contains 5% chlorite. 56.62-56.67: Mud seam; mud with schist chips recovered. 56.71 : 5 mm quartz stringer at 70° to C.A. Slightly rusty. 57.09-57.25: Estimate 35% quartz as stringers up to 1 cm parallel to foliation at 40° to C.A. 57.44-57.45: Quartz stringer at 55° to C.A. 57.58-57.60: Quartz stringer at 55° to C.A. 57.60-57.68: A number of tension gashes filled with quartz. 57.73-58.58: Soft schist, mostly muddy schist recovered.	70°			
58.58	59.02	Ground Core					

From	To	Rock Name	Description	CA	From	To	Sample No.
59.02	60.54	Quartzite	Contains a few narrow schist interbands. Vague foliation at 60° to C.A. A number of biotite chlorite partings.	60°			
60.54	61.10	Schist with quartzite interbands	As above, quartzite interbands, typically 1-2 cm. Folation at 60° to C.A. 60.55 : 3 mm by 3 cm quartz patch. 60.77-60.79: Irregular quartz stringer at 55° to C.A.	60°			
61.10	69.00	Quartzite	Fairly massive, vague foliation at 50° to 75° to C.A. Contains numerous chloritic partings and several chlorite filled fractures predominantly at 15° and 35° to C.A. 61.35 : 5 mm quartz stringer at 50° to C.A. 61.43-61.45: Quartz stringer at 50° to C.A. Contains 7% chlorite. 61.63-61.70: Estimate 20% quartz as patches in chloritic section. 61.72 : 5 mm quartz stringer at 70° to C.A. 61.76-61.80: Quartz stringer at 55° to C.A. Chloritic margins. 61.80-62.20: A number of fractures at 60° to C.A. filled with chlorite and siderite? 62.66-62.69: Quartz patch, contains 7% chlorite. 62.85 : Open rusty seam at 25° to C.A. Coated with (FeMn?) stain. 63.00-63.90: Several hairline fractures filled with chlorite, predominantly at 60° to C.A. 63.93-64.00: Quartz stringer at 60° to C.A. Contains 15% chlorite.	50-75°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			64.60-65.60: Fracture, nearly parallel to C.A., coated with (FeMn?) stain. Ladder structure chlorite veining.				
			65.30-65.60: Bleached section adjacent to fracture.		65.00	66.00	40141
			65.76-65.95: Several quartz stringers containing up to 10% chlorite at 65° to C.A.				
			66.72-66.74: Quartz stringer at 75° to C.A. Fractured at 15° to C.A.				
			66.75-66.78: Quartz stringer at 80° to C.A. Fractured at 10° to C.A.				
			67.32-67.33: Quartz stringer at 55° to C.A.				
			67.69-67.71: Quartz stringer at 75° to C.A. Slightly rusty.				
			68.00-68.20: A number of chlorite veinlets at 25° to C.A.				
			68.72-68.81: A number of narrow quartz stringers up to 5 mm at 60° to C.A.				
			68.84-68.86: Quartz stringer at 70° to C.A. Contains 5% chlorite.				
69.00	69.90	Chloritite	Soft, chloritic section, contains a few rusty fractures at 55° and 40° to C.A. 69.70-69.90: A few small quartz clasts present.				
69.90	70.44	Quartz breccia	80% quartzite, 20% chlorite matrix, lightly brecciated, becoming more so down section.				
70.44	72.33	Biotite chlorite schist	Well foliated at 65° to C.A. Contains numerous 1 mm quartz stringers parallel to foliation.	65°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			70.36 : Quartz patch, contains 5% chlorite. 70.41-70.43: Quartz patch. 70.60-70.74: A number of irregular quartz patches and stringers, estimated 20% quartz. 71.62-71.74: Quartz stringer upper contact 45° to C.A. Lower contact 25° to C.A. 71.74 : Obvious grinding, core ends turned.				
72.33	73.10	Quartzite breccia	Lightly brecciated, contains 35% quartzite in chloritic matrix, contains a number of chloritic fractures at 80° to C.A. A few FeMn stained fractures at random angles to C.A. 72.40 : 1.2 cm seam with heavy FeMn staining. 73.00 : Heavy FeMn staining on fractures at 20° to C.A.				
73.10	73.94	Quartzite	Light grey, fairly massive, contains numerous chlorite filled fractures at 70° and at 30° to C.A. A number of vuggy intervals, vugs mostly on fractures. 73.88-73.94: Quartz stringer at 35° to C.A. Fractures filled with chlorite.				
73.94	74.40	Chlorite biotite schist	A number of rusty fractures at 55° to C.A. Foliation at 70° to C.A. 74.00-74.05: Quartz stringer at 65° to C.A. 74.13-74.15: Quartz stringer at 65° to C.A.	70°			

From	To	Rock Name	Description	CA	From	To	Sample No.
74.40	74.64	Quartzite	Similar to above. Fractured at 65° and 15° to C.A. 74.53 : 1 cm by 5 cm quartz patch.				
74.64	76.16	Chlorite biotite schist	Contains several narrow quartzite bands, typically less than 5 cm. 74.76 : 1 cm quartz stringer at 60° to C.A. 74.94-74.96: Quartz stringer at 65° to C.A. Contains several rusty fractures at 10° and 45° to C.A. 74.97-74.98: Quartz stringer at 75° to C.A. Contains 5% chlorite. 74.99-75.03: Quartzite band. 75.04-75.07: Quartz stringer at 70° to C.A. Contains 5% chlorite. 75.34 : 5 mm quartz stringer at 60° to C.A. 75.36-75.39: Quartz stringer at 60° to C.A. Contains traces chlorite. 75.43-75.46: Irregular quartz stringer at 60° to C.A. Contains 5% chlorite. 75.48-75.64: Quartz vein at 50° to C.A. Contains 7% chlorite, fractured at 70° and 50° to C.A. 75.71-75.73: Quartz stringer at 80° to C.A. 75.81-75.82: Quartz stringer at 75° to C.A.				
76.16	76.65	Quartzite	As above. 76.16-76.25: Quartzite band. 76.25-76.34: Estimate 35% quartz as irregular patches.				

From	To	Rock Name	Description	CA	From	To	Sample No.
76.65	77.55	Biotite chlorite schist	Similar to above. Foliation at 70° to C.A. Varies locally. 76.69-76.71: Quartz stringer at 70° to C.A. Slightly rusty. 76.71-76.94: Highly contorted. 76.94-77.05: Estimate 20% quartz as patches, and irregular stringers. Slightly rusty. 77.20-77.25: Quartz patch, contains traces chlorite. 77.46-77.50: A number of quartz patches and irregular stringer. Estimate 70% quartz.	70°			
77.55	78.58	Breccia Zone	Grey-green to black, somewhat chloritic. Fairly hard, contains 50% non-magnetic pyrrhotite?, with traces pyrite and rare traces sphalerite and chalcopyrite. Chalcopyrite occurs as separate thin veinlets. Estimate 15% quartz present, as stringers up to 2 cm at 40° to 50° to C.A.		76.55 77.55 78.58	77.55 78.58 79.58	40138 40139 40140
78.58	79.33	Quartzite	Contains 10% chlorite in fractures at 20° and 55° to C.A. Estimate 5% sulphide, mostly pyrrhotite.				
79.33	79.56	Biotite chlorite schist	Contains a number of 1-3 mm quartz stringers parallel to foliation at 75° to C.A. Several traces pyrite and pyrrhotite scattered through section.	75°			
79.56	80.57	Chlorite schist	Medium green, fairly massive, contains a few biotite bands at 70° to C.A. Occasional fractures to 1 mm filled with sulphides, mostly pyrrhotite and pyrite.				

From	To	Rock Name	Description	CA	From	To	Sample No.
80.57	81.70	Quartzite with schist interbands	Foliation at 70° to C.A. 80.73-80.74: Rusty quartz stringer at 70° to C.A. 80.79 : 4 mm quartz stringer at 75° to C.A. 80.83-80.86: Quartz stringer at 70° to C.A. Somewhat rusty. 81.17-81.18: Rusty quartz stringer at 65° to C.A. 81.21-81.22: Rusty quartz stringer at 80° to C.A. 81.26-81.27: Quartz stringer at 85° to C.A. Slightly rusty. 81.51-81.52: Quartz stringer at 75° to C.A. Slightly rusty. 81.62-81.67: Rusty quartz stringer at 70° to C.A. Contains traces chlorite.	70°			
81.70	82.10	Biotite chlorite schist	As above. 81.70-81.90: Section with abundant biotite. 81.90-81.93: Quartz stringer at 55° to C.A. Slightly rusty. 81.97-82.01: Quartz stringer at 65° to C.A. 82.07-82.08: Quartz stringer at 70° to C.A. Slightly rusty.				
82.10	82.53	Quartzite	Somewhat rusty, contains a number of biotite chlorite partings. Foliation at 65° to C.A. 82.38-82.41: Rusty quartz stringers, upper contact 55° to C.A. Lower contact 70° to C.A. 82.52-82.53: Quartz stringer at 68° to C.A. Slightly rusty.	65°			

From	To	Rock Name	Description	CA	From	To	Sample No.
82.53	82.70	Biotite chlorite schist	Highly contorted, foliation generally at 70° to C.A. Rusty.	70°			
82.70	86.15	Quartzite	Grey, fairly massive. Contains a number of biotite, chlorite partings. Vaguely foliated at 75° to C.A. Fractured at 75° and 25° to C.A. Fractures coated with black (FeMn?) stain. 83.00 : 4 mm quartz stringer at 20° to C.A. 83.80-83.81: Quartz stringer at 65° to C.A. 83.87-83.88: Slightly rusty quartz stringer at 70° to C.A. 83.95-83.98: Quartz patch. 84.14-84.18: Quartz stringer at 50° to C.A. Contains traces chlorite. 84.24-84.32: Estimate 35% quartz as patches. 84.36 : 5 mm quartz stringer at 40° to C.A. 84.40 : 3 mm quartz stringer at 40° to C.A. 84.47-84.48: Quartz patch. 84.52-84.57: Quartz stringer at 80° to C.A. Fractured at 10° to C.A. Fractures filled with chlorite. 85.17-85.18: Rusty quartz stringer at 35° to C.A. 85.20-85.80: A number of fractures at 75° and 25° to C.A. Filled with black (FeMn?) stained material.	75°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			85.59-85.67: 75% quartz as irregular stringers, generally trending at 75° to C.A. 85.83 : 2 mm quartz stringer at 15° to C.A. 85.93 : 3 mm quartz stringer at 65° to C.A.				
86.15	86.98	Biotite chlorite schist	Highly foliated at 70° to C.A. Varies locally. Contains a number of 1-2 mm quartz stringers parallel to foliation. Occasional narrow quartzite bands present. 86.70-86.71: Rusty quartz stringer at 60° to C.A. 86.83-86.86: Slightly rusty quartz stringer at 35° to C.A. Contains 7% chlorite. 86.94 : 4 mm quartz stringer at 65° to C.A.	70°			
86.98	91.09	Quartzite	Contains a few narrow biotite chlorite schist bands. Vaguely foliated at 80° to C.A. Considerable local variation. 87.01-87.02: Irregular quartz patch. Contains traces chlorite. 87.20-87.32: Several rusty fractures at 30° to C.A. 87.47-87.50: Heavy biotite band. 87.57-87.60: Quartz stringer at 80° to C.A. 87.67-87.76: Heavy biotite section. 88.22 : 3 mm quartz stringer at 75° to C.A. 88.31 : 3 mm quartz stringer at 65° to C.A. 88.45 : 5 mm quartz stringer at 85° to C.A.	80°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			88.64 : 5 mm quartz stringer at 70° to C.A. 88.79-88.80: Quartz stringer at 70° to C.A. 88.95-88.96: Quartz stringer at 65° to C.A. 89.85 : Several vugs lined with black FeMn stain. 90.00-91.09: A number of fractures at 25° and 10° to C.A. filled with chlorite.				
91.09	91.32	Biotite chlorite schist	Foliation at 70° to C.A. 91.16-91.17: Quartz stringer at 55° to C.A. 91.27-91.32: Quartz stringer at 65° to C.A. Slightly rusty, fractured at 15° to C.A.	70°			
91.32	91.70	Quartzite	Fairly massive, contains a number of biotite chlorite partings. Vague foliation at 75° to C.A.	75°			
91.70	93.80	Biotite chlorite schist	Foliation at 20° to 45° to C.A. Contact with above section consists of rusty red-brown mud, discrepancy in foliation. Indicates possible fault. 92.16-92.17: Quartz stringer at 60° to C.A. 92.22-92.23: Quartz stringer at 40° to C.A. 92.26-92.28: Quartz stringer at 35° to C.A. 92.65 : 3 mm quartz stringer at 25° to C.A. 92.76-92.79: Quartz patch. 92.79 : 2 mm quartz stringer at 40° to C.A.	20-45°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			92.85-93.00: Estimate 30% quartz as patches and narrow stringers. 93.16-93.21: Quartz stringer at 30° to C.A. Contains 7% chlorite, traces pyrrhotite. 93.30-93.40: Quartz stringer at 45° to C.A. Slightly rusty fractures at 45° to C.A. Contains 10% chlorite. 93.40-93.70: Somewhat altered looking section. Contains a number of 1 mm rusty quartz stringers at 35° to C.A. Open fracture coated with black FeMn stain, nearly parallel to C.A. 93.77 : 3 mm quartz stringer at 25° to C.A. Contains considerable black FeMn stain.				
93.80	102.25	Tuff?	Grey-green, contains a few minor biotite bands, generally medium green color, contains considerable fine chlorite. Vague foliation at 75° to C.A. Contains a number of 1-2 mm quartz stringers, generally at 60° to C.A. Several traces disseminated pyrrhotite scattered through section. Quite massive. Dioritic composition. 94.84 : Rusty open seam, contains considerable FeMn stain. 95.60 : Narrow rusty fracture at 30° to C.A. 96.52 : Fold hinge? 97.33 : 1 cm quartz stringer at 20° to C.A. contains 7% sphalerite, 3% pyrite,				

From	To	Rock Name	Description	CA	From	To	Sample No.
			traces pyrrhotite. 98.47 : 2 mm quartz-carbonate stringer at 25° to C.A. 98.64 : 3 mm quartz-carbonate stringer at 20° to C.A. 98.73 : 5 mm quartz-carbonate stringer at 20° to C.A. 98.76-99.45: Several 1-2 mm quartz carbonate stringers, generally at 20° to C.A. 99.65 : 3 mm quartz carbonate stringer at 25° to C.A. 99.70-100.15: Highly contorted section. 99.90 : Soft mud seam, only partly recovered, rusty. 100.70-102.25: Light grey, extremely hard. Fine grained quartzite. Bleached looking. Contains a number of fractures at 45° - 60° to C.A. Usually filled with chlorite. Occasional fractures filled with quartz-carbonate. 101.50-102.25: Estimate 5% tourmaline. 102.00-102.25: Several fractures at 25° to C.A. Coated with black FeMn stain. 102.17 : Chlorite patch containing traces pyrrhotite and pyrite.				
102.25	103.00	Chlorite schist	Bleached looking, light grey to green. Foliation at 60° to C.A. Contains a few 1 mm quartz carbonate stringers parallel to foliation.	60°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			102.70 : Rusty, open fracture at 10° to C.A. Some black FeMn stain.				
103.00	111.50	Tuff?	Light green, contains 10% chlorite. Vague foliation at 75°-80° to C.A. Occasional hairline fractures, generally at 40° to C.A. filled with quartz carbonate. Very hard, massive. 104.95 : 2 mm sulphide stringer at 25° to C.A. Contains mostly pyrite, traces pyrrhotite. 105.11-105.14: Quartz patch, contains 15% chlorite. 105.90-106.18: Section contains 15% biotite as narrow bands at 75° to C.A. 106.20-106.40: Fracture sub-parallel to C.A. Coated with black FeMn stain. 107.23 : Fracture at 25° to C.A. Heavy FeMn stain. 107.47 : Fracture at 20° to C.A. coated with black FeMn stain. 107.69-107.73: Quartz stringer at 60° to C.A. Contains 5% chlorite. 107.92-108.08: Quartz vein at 78° to C.A. contains 15% chlorite, 5% pyrrhotite and 1% pyrite, traces sphalerite. 109.20 : Fracture at 7° to C.A. coated with black FeMn stain.				

From	To	Rock Name	Description	CA	From	To	Sample No.
			109.73-109.97: A number of biotite and chlorite bands at 70° to C.A. 109.77-109.79: Quartz stringer at 75° to C.A. Contains 10% chlorite. 109.97-110.65: Extremely fine grained, massive, slightly rusty. Fractured at 70° and 10° to C.A. Fractures coated with black FeMn stain. Several traces tourmaline. 110.75-110.81: Quartz stringer at 55° to C.A. Contains 5% chlorite. 110.82-110.91: Several narrow biotite bands at 75° to C.A.				
111.50	112.68	Chlorite schist	Medium green-grey, foliation generally at 60° to C.A. Occasional biotite bands. 111.90-112.00: Highly contorted. 112.39 : 2 mm quartz carbonate stringer at 60° to C.A. 112.51 : 2 mm quartz carbonate stringer at 75° to C.A.	60°			
112.68	113.00	Quartzite	Vague foliation at 80° to C.A. Contains a number of quartz-carbonate stringers up to 1 mm at 50° to C.A.	80°			
113.00	113.11	Chlorite schist	Similar to above, foliation at 75° to C.A.	75°			
113.11	113.36	Quartzite	As above, vague foliation at 80° to C.A. Contains a number of quartz carbonate stringers up to 2 mm at 25° - 50° to C.A.	80°			

From	To	Rock Name	Description	CA	From	To	Sample No.
113.36	115.13	Amphibolite dyke?	Medium green-grey, somewhat altered looking. Upper contact 75° to C.A. Lower contact 75° to C.A. Chilled margin, well developed on lower contact. Contains a few fractures generally at 70° to C.A., coated with black FeMn stain. Possibly a tuff.				
115.13	118.73	Quartzite with inter-bands of chlorite biotite schist	Green-grey quartzite, massive, with narrow interbands of dark green schist. Schist sections generally less than 10 cm. A number of hairline fractures containing quartz carbonate at 20° - 55° to C.A. A number of fractures containing FeMn, generally at 25° to C.A. 115.60 : 7 mm quartz stringer at 35° to C.A. contains 10% chlorite. 117.00-117.17: Several quartz and quartz carbonate stringers up to 1 cm at 65° to C.A. 117.33 : Mud seam at 40° to C.A. 117.45-117.74: Numerous biotite bands at 80° to C.A. 117.89-117.92: Quartz stringer at 70° to C.A. Slightly rusty, contains 10% chlorite. 118.12-118.14: Quartz stringer 85° to C.A., contains 3% chlorite. 118.32 : 5 mm quartz stringer at 75° to C.A. Slightly rusty.				
118.73	120.25	Chlorite biotite schist	Dark grey to black, well foliated at 70° to C.A. Contains occasional narrow quartzite bands, generally less than 1 cm. Contains a number of fractures at 50°-80° to C.A.	70°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			Filled with quartz carbonate, occasional fractures coated with black FeMn stain. 119.89-119.95: Quartz stringer at 80° to C.A. Contains 10% chlorite. 120.00-120.10: Quartzite band.				
120.25	120.65	Quartzite	Massive medium-grey, highly fractured at 45° and 65° to C.A. Fractures coated with black FeMn stain. 120.62-120.65: Mud seam, soft black mud recovered.				
120.65	121.00	Tuff?	Dark green, dioritic? composition, hard, occasional fractures at 50° to C.A., coated with black FeMn stain.				
121.00	121.30	Quartzite	Fairly massive, vague foliation at 65° to C.A. 121.13-121.17: Rusty quartz stringer at 55° to C.A., somewhat vuggy.	65°			
121.30	122.04	Chlorite biotite schist	Soft, mud in part recovered, rusty. Foliation at 70° to C.A. 121.38-121.50: Rusty quartz stringer, only chips recovered, considerable FeMn stain.	70°			
122.04	125.70	Quartzite	Medium grey, massive, vague foliation at 75° to C.A. 122.30 : Open fracture at 15° to C.A., shows quartz crystal growth. 122.40 : 6 mm quartz stringer, vuggy, at 20° to C.A. 122.52 : Open fracture at 20° to C.A., shows quartz crystal	75°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			growth, some crystals coated with black FeMn stain. 123.80 : 1 mm fracture at 10° to C.A., coated with black FeMn stain. 124.43-124.48: Quartz stringer at 80° to C.A. Contains 3% chlorite. 124.53-124.65: Several quartz stringers at 70° to C.A. Contains 3% chlorite. 125.30-125.31: Quartz stringer at 75° to C.A. 125.31-125.46: Possibly tuffeous. 125.58-125.70: A number of quartz patches and stringers. Estimate 40% quartz present.				
125.70	127.55	Biotite chlorite schist	Foliation at 75° to C.A., contains numerous quartz stringers up to 5 mm, generally parallel to foliation. 125.89-126.15: Highly contorted section. 126.26-126.27: Quartz stringer at 60° to C.A. 126.36-126.39: Quartz stringer at 85° to C.A. 126.47-126.51: Quartz stringer at 50° to C.A.	75°			
127.55	127.87	Quartzite	Light grey, massive, contains a number of chloritic partings at 70° to C.A. 127.66-127.67: Quartz stringer at 70° to C.A. Contains 5% chlorite.				

From	To	Rock Name	Description	CA	From	To	Sample No.
127.87	130.50	Chlorite biotite schist	Similar to above. Foliation at 65° to C.A. Contains a number of quartz stringers up to 5 mm, generally parallel to C.A. 128.15-128.19: Soft mud seam. 128.22-128.23: Slightly rusty quartz stringer at 65° to C.A. 129.72-129.78: Mud seam. 129.79-130.14: Quartzite band, contains some narrow biotite seams. 130.29 : 5 mm quartz stringer at 65° to C.A. 130.50 : END OF HOLE.	65°			

VENTURE CORTIN

PROJECT

PROPERTY EPD

CAMPBELL RESOURCES INC.
DIAMOND DRILL LOG

LOCATION

GRID

Location 99+75.3N
Section 102+98.3W
Bearing 350°
Dip -45°
Length 81.25m

TESTS

TROPARI

Depth	Mag Brg	Corr Brg	Dip
30.48			
60.96			
76.20			

ACID

Dip
-45°
-45½°
-45°

SURVEY

Latitude
Departure
Elevation
Bearing
Dip

PHYSICAL DATA

Core Size NQ to 81.25m , to
Date Started August 10, 1980 re-started Aug. 20 (drill stopped Aug. 20 (1.35m addition
Date Completed August 14, 1980
Casing Pulled No
Core Recovery 95.4%
Cemented Yes
Core Location: In storage at Oliver Creek camp site 115-P-15

Logged by D.R. Kennedy
Contractor Arctic Diamond Drilling

NOTES: 1) Give reference - Magnetic, Grid, True
2) Corrected dip.

DDH No. 80-07

From	To	Rock Name	Description	CA	From	To	Sample No.
0.00	7.10	Casing	Through overburden, casing later reemed to 9.4. Casing left in place.				
7.10	8.00	Quartzite	Hard, fairly massive, vague foliation at 60° to C.A. Core highly broken up. 7.45-7.51: Quartz stringer at 68° to C.A. Contains 5% chlorite. A few rusty fractures. 7,68-7.89: Estimate 65% quartz as patches and narrow stringers generally 70° to C.A.	60°			
8.00	9.40	Ground Core					
9.40	10.30	Quartzite	Fractured, a number of hairline stringers filled with quartz and quartz carbonate, generally at 70° to C.A.	70°			
10.30	10.50	Micaceous schist	Equal quantities of sericite and chlorite. Vague foliation at 50° to C.A. 10.35 : 6 mm quartz stringer at 60° to C.A. Contains traces pyrite.	50°			
10.50	11.00	Ground Core					
11.00	11.60	Quartzite	Similar to above, highly fractured. Fractures generally around 35° to C.A. A number of chloritic partings at 65° to C.A. Some fractures filled with black FeMn stain.		11.00 11.60	11.60 12.13	40142 40143
11.60	12.13	Micaceous schist	Soft, highly broken up, mostly chips recovered.				

From	To	Rock Name	Description	CA	From	To	Sample No.
12.13	12.30	Ground Core					
12.30	13.00	Micaceous schist	Soft, highly broken up, mostly chips recovered. 12.30-12.65: Extremely rusty, stained yellowy-brown. Some rusty mud present. 12.80 : Muddy seam.		12.30	13.00	40144
13.00	13.70	Ground Core					
13.70	14.20	Micaceous schist	As above.		13.70	14.20	40145
14.20	14.80	Quartzite	Light grey, vaguely foliated at 40° to C.A. Contains a number of chloritic partings. 14.50-14.52: Quartz stringer at 65° to C.A. Slightly rusty. 14.52-14.53: Narrow, rusty schist band at 65° to C.A.	40°	14.20	14.80	40146
14.80	15.20	Ground Core					
15.20	15.33	Micaceous schist	Only chips and soft mud recovered.				
15.33	16.80	Quartzite	Light grey, fine grained, fairly massive. Contains a number of chloritic partings at 65° to C.A. Vaguely foliated at 60° to C.A. Core badly broken up. 15.80-15.95: Quartz stringer containing 5% chlorite, at 50° to C.A. 16.07-16.14: Quartz stringer. Contacts obscured in broken core. Contains 5% chlorite.	60°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			16.40-16.53: A number of quartz stringers at 55° to C.A. Slightly chloritic section.				
			16.63-16.75: A number of quartz bits in highly broken core.				
16.80	19.88	Micaceous schist	Foliated at 70° to C.A. Contains 30% chlorite? 10% sericite.	70°			
			16.90-16.91: Quartz stringer at 68° to C.A.				
			16.91-17.15: A number of quartz stringers up to 2 cm, generally at 65° to C.A. Core highly broken up.				
			17.70-18.90: Core, very broken, mostly chips recovered. Section often stained red-brown. Some FeMn stain present.		17.00 18.00 19.00	18.00 19.00 19.88	40147 40148 40149
			18.90-19.88: More chloritic than previous section. A number of fractures with rusty brown muddy material.				
			19.13-19.14: Quartz stringer at 60° to C.A.				
			19.26-19.63: Extremely rusty section, yellow-brown color, mostly chips recovered				
19.88	20.07	Chloritic band?	Dark green, fine grained, fairly hard. Vague foliation at 50° to C.A. Contains 3% pyrite, 2% pyrrhotite.	50°	19.88	20.07	40150
20.07	21.10	Chloritic schist	Green-grey, lightly foliated at 45° to C.A. Highly fractured. Fractures generally at 40° to C.A. A number of black-brown FeMn? stained fractures.	45°	20.07	21.10	40151

From	To	Rock Name	Description		From	To	Sample No.
			20.57-20.75: Extremely rusty band, yellow-brown. 20.85-20.91: Narrow quartzite band, similar to above.				
21.10	21.72	Quartzite	Similar to above sections, vaguely foliated at 50° to C.A. A number of fractures stained red-brown.	50°	21.10	21.72	40152
21.72	23.70	Micaceous schist	Similar to above, contains a few narrow quartzite bands, generally less than 1 cm. Foliation at 60° to C.A. contains numerous chloritic partings, occasional biotite bands. Core quite broken up. Recovery probably good. 22.23-22.29: Rusty section, yellow-brown Highly broken up. 22.60-22.62: Soft chloritic mud seam at 75° to C.A. 22.98-23.10: Quartz stringer at 65° to C.A.	60°			
23.70	29.00	Quartzite	Light grey, fine grained. Hard, fairly massive. Contains a number of chlorite filled fractures, generally at 30° and 55° to C.A. Occasional narrow schist seams up to 5 cm present. Vaguely foliated at 60° to C.A. 24.24 : 5 mm quartz stringer at 60° to C.A. 24.51 : 6 mm quartz stringer at 65° to C.A. 24.53-24.59: Quartz stringer at 70° to C.A. Contains 10% chlorite. 24.60-24.62: Quartz stringer at 65° to C.A. Slightly rusty.	60°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			25.43-25.51: Slightly rusty section. 26.91-27.07: Quartz vein, slightly rusty Contact slightly irregular generally at 65° to C.A. Fractured 30 and 60° to C.A. Contains 3% chlorite. 27.17-27.27: Several quartz patches up to 2 cm 27.45-27.46: Quartz stringer at 65° to C.A. 27.54-27.60: Quartz patch, slightly rusty. 27.87-28.00: Quartz stringer. Contacts obscured in broken core. Slightly rusty. Fractured at 25° and 75° to C.A. 28.07-28.08: Quartz stringer at 65° to C.A. Slightly rusty. 28.25-28.29: Quartz stringer at 70° to C.A. Slightly rusty, contains 3% chlorite.		25.50	26.50	40153
29.00	30.01	Micaceous schist	Contains several quartzite bands, generally less than 5 cm. Well foliated at 65° to C.A. Contains several quartz patches and occasional 1-2 mm quartz stringers, parallel to foliation. 28.18-28.19: Quartz stringer at 50° to C.A. 28.23-28.26: 3 quartz patches up to 2 cm	65°			
30.01	31.10	Quartzite	Grey, hard, massive, vaguely foliated at 68° to C.A. Several narrow slightly rusty bands, generally parallel to foliation. Occasional rusty fractures coated with black or red-brown stain.	68°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			Occasional 1-2 cm schist bands.				
31.10	31.30	Micaceous schist	As above. Foliation at 65° to C.A. 31.11-31.18: Quartz stringer at 65° to C.A. Slightly rusty, fractured at 15° to C.A. Contains 5% chlorite.	65°	31.00	32.00	40154
31.30	42.70	Quartzite	Similar to above. Contains a number of quartz patches and quartz stringers up to 1 cm, generally parallel to vague foliation at 45° to C.A. There are several narrow schist bands, generally less than 5 cm. 31.70-32.15: Slightly rusty section. 32.38-32.50: Estimate 30% quartz as patches. 32.70-32.90: Estimate 30% quartz as stringers, generally at 30° to C.A. 32.97-32.99: Soft, rusty seam at 73° to C.A. 33.09-33.10: Quartz stringer at 75° to C.A. 33.90-34.00: Narrow breccia zone. 34.44-34.48: Rusty quartz stringer at 70° to C.A. 34.92-34.93: Quartz stringer at 70° to C.A. 35.35 : A few rusty vugs. 36.00-42.70: Highly fractured at 40° and 10° to C.A. Fractures generally filled with chlorite. Occasional vugs with pyrite.	45°	36.00 37.00 38.00 39.00 40.00 40.70 41.00 42.00	37.00 38.00 39.00 40.00 40.70 41.00 42.00 43.00	40155 40156 40157 40158 40159 40160 40161 40162

From	To	Rock Name	Description	CA	From	To	Sample No.
			Estimate 15% chlorite present. Several rusty fractures at 45° and 10° to C.A. 36.70-37.10: Somewhat brecciated, chloritic matrix. 37.10-38.10: Chloritic section. 37.67-37.72: Band brecciated material at 40° to C.A. 38.20-38.43: Estimate 60% rusty quartzite as irregular patches. Brecciated. 38.66-38.72: Angular quartzite patches, brecciated. 39.08-39.12: Quartz stringer at 53° to C.A. Slightly rusty, contains 5% chlorite. 40.60-40.95: Chloritic section, soft. Numerous rusty fractures at 15° and 65° to C.A. 40.95-41.05: Rusty, soft zone. FeMn staining. 41.05-40.70: Very highly fractured at 40° and 15° to C.A. Estimate 10% chlorite as fracture fillings, slightly rusty. 40.70-41.00: Brecciated, contains 35% quartzite. Chloritic matrix. Quartzite fragments, generally less than 3 mm. 41.00-41.25: Highly chloritic, soft. somewhat rusty. 41.25-41.61: Quartzite breccia. Estimate 70% quartzite fragments up to 7 mm in chloritic matrix. 41.61-41.65: Chloritic seam at 65° to C.A.				

From	To	Rock Name	Description	CA	From	To	Sample No.
			41.82-42.00: Quartzite breccia, estimate 70% quartzite with fragments up to 1 cm in chloritic matrix. 42.10-42.24: Chloritic band, soft. 42.24-42.70: Quartzite, extremely rusty. Core highly broken up.				
42.70	46.23	Chlorite schist	Medium grey-green, foliated at 60° to C.A. Generally rusty and altered looking. Contains a number of narrow quartz stringers up to 3 mm, generally parallel to foliation. 44.10-45.20: Extremely rusty, yellow-brown color. Contains a few fractures with FeMn staining. Brecciated, chloritic fragments appear to be cemented by rusty material. 44.97-44.99: Quartz patch. 45.20-45.70: Slightly rusty, brecciated. Chloritic fragments cemented by slightly rusty material. 46.00-46.23: A few fractures at 40° and 25° to C.A. with azurite and malachite staining.	60°	43.00 44.00 45.00 46.00	44.00 45.00 46.00 46.23	40163 40164 40165 40166
46.23	47.70	Quartzite	Light grey, fairly massive. Contains 5% chlorite. Vaguely foliated at 60° to C.A. Highly fractured at 15 and 60° to C.A. Fractures generally rusty. Numerous open fractures at 15°-20° to C.A. Often coated with azurite and malachite. 46.70 : Fracture at 55° to C.A. coated with epidote.	60°	46.23 47.23	47.23 47.70	40167 40168

From	To	Rock Name	Description	CA	From	To	Sample No.
47.70	50.57	Quartzite Shattered	Light grey, fairly massive, highly cracked, no movement evident. Contains 5-8% chlorite as fracture fillings, vaguely foliated at 73° to C.A. Contains numerous chloritic partings. Fractures generally at 20, 50 and 80° to C.A. Contains traces azurite and malachite on a few fractures. Several open yellow-brown, rusty fractures at 30° to C.A. A few fractures coated with black FeMn stain. 48.30-48.90: Quartz vein?, highly fractured. Fractures filled with chlorite. Contacts obscured in broken core. 49.10-49.12: Quartz stringer at 75° to C.A. 49.22-49.47: Quartz stringer? Upper contact not evident, lower contact at 60° to C.A., contains 10% chlorite. Highly fractured. 49.78-50.10: Quartz stringer, upper contact obscured in broken core. Lower contact at 80° to C.A. Contains a few rusty fractures at 30° and 10° to C.A.	73°	47.70 48.70 49.70	48.70 49.70 50.57	40169 40170 40171
50.57	51.63	Biotite-chlorite schist	Extremely soft, well foliated at 75° to C.A. 51.40 : 3 mm quartz stringer at 50° to C.A. 51.54-51.58: Several quartz patches to 1 cm.	75°			

From	To	Rock Name	Description	CA	From	To	Sample No.
51.63	52.04	Quartzite	Light grey, fine grained, massive. Vaguely foliated at 78° to C.A. 51.80 : Fracture at 5° to C.A. coated with black FeMn stain.	78°			
52.04	59.00	Biotite chlorite schist	Medium grey color, foliated at 75° to C.A. Fairly tight. 52.50 : 3 mm quartz stringer at 70° to C.A. 52.60-52.63: Quartz stringer at 65° to C.A. Contains traces chlorite. 52.85-52.87: Quartz stringer at 72° to C.A. 53.06 : 5 mm epidote stringer at 55° to C.A. 54.17 : 6 mm quartz stringer at 65° to C.A. 54.98-55.00: Quartz stringer at 65° to C.A. 55.04-55.06: Quartz stringer at 60° to C.A. 55.53 : 3 mm quartz stringer at 80° to C.A. 55.64-55.68: Quartz patches in chlorite rich section. 55.71 : 5 mm quartz stringer at 75° to C.A. 55.75-55.78: Quartz stringer at 70° to C.A. 56.05-56.07: Quartz stringer at 70° to C.A. 57.80-57.82: Quartz stringer at 78° to C.A. 57.90-57.95: Mud seam.	75°	55.00 56.00	56.00 57.00	40172 40173

From	To	Rock Name	Description	CA	From	To	Sample No.
			58.50-58.58: Several quartz patches. 58.69-58.82: Several quartz patches.				
59.00	59.23	Quartzite	Light grey, fine grained, massive. Estimate 30% quartz as stringers, generally at 70° to C.A.				
59.23	60.52	Biotite chlorite schist	Dark grey; foliated at 65° to C.A. Contains occasional quartzite bands, generally less than 5 cm. Several rusty fractures present at 35° and 15° to C.A. 59.86-59.90: Slightly rusty quartz stringer at 60° to C.A. 59.93-59.96: Quartz stringer at 60° to C.A. 60.00-60.25: Highly contorted section. Foliation at 40° to C.A. Contains a number of quartz patches up to 2 cm. Estimate 15% quartz. 60.27-60.34: Quartzite band.	65°	59.23 60.23 60.52 61.50	60.23 60.52 61.50 62.75	40174 40391 40392 40393
60.52	62.75	Quartzite	Grey, massive, vaguely foliated at 75° to C.A. 60.53-60.55: Quartz stringer at 65° to C.A. 61.00 : 5 mm quartz stringer at 65° to C.A. 61.48 : 5 mm quartz stringer at 80° to C.A. 61.50-61.80: Brecciated section? Quartzite fragments in epidote? matrix. Vuggy. 62.22-62.23: Quartz stringer at 70° to C.A. 62.25-62.26: Quartz stringer at 60° to C.A.	75°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			62.50-62.54: Quartz stringer. Contacts obscured in broken core. 62.68-62.69: Quartz stringer at 75° to C.A.				
62.75	63.74	Biotite chlorite schist	Well foliated at 70° to C.A. Contains a number of quartz stringers up to 5 mm parallel to foliation. Occasional quartz patches present. 63.15-63.16: Quartz stringer at 55° to C.A. 63.45-63.46: Quartz stringer at 70° to C.A. 63.49-63.52: Quartz stringer at 75° to C.A.	70°	62.75	63.74	40394
63.74	64.40	Quartzite	Grey, fine grained, massive. Contains a few 1 cm schist bands, generally at 70° to C.A. 63.86-63.88: Quartz stringers at 75° to C.A. 64.20-64.40: Core highly broken up, only chips recovered.	70°	63.74	64.40	40175
64.40	64.80	Ground Core					
64.80	65.78	Biotite chlorite schist	Dark grey to black, similar to above section. Foliation at 70° to C.A. 65.30-65.50: Abundant andalusite? 65.64-65.65: Quartz patch.	70°	64.80	65.78	40395
65.78	66.67	Quartzite	Grey, fine grained, fairly massive. (Lightly) fractured at 60° to C.A. Vaguely foliated at 75° to C.A. Fractures often coated with black FeMn stain. Core highly broken up. 66.66-66.67: Quartz stringer 70° to C.A.	75°			

From	To	Rock Name	Description	CA	From	To	Sample No.
66.67	66.95	Biotite chlorite schist	As above				
66.95	67.88	Quartzite	Grey, fine grained, massive. Vaguely foliated at 60° to C.A. Contains a few fractures, filled with quartz carbonate, at 25° and 5° to C.A.	60°			
67.88	68.18	Biotite chlorite schist	As above 68.08-68.09: Quartz patch.				
68.18	69.73	Quartzite	As above. Contains a few narrow schist bands up to 2 cm. Foliation at 80° to C.A. 68.22-68.30: Several quartz stringers at 75° to C.A. Contains 10% chlorite 69.38-69.40: Irregular quartz stringers, generally at 70° to C.A. 69.42-69.46: Several quartz patches. 69.53-69.54: Quartz stringer at 85° to C.A.	80°			
69.73	69.89	Biotite chlorite schist	As above. Foliation generally at 70° to C.A. Some local variation.	70°			
69.89	70.12	Quartzite	Similar to above. Vague foliation at 70° to C.A. 69.98-69.99: Quartz stringer at 75° to C.A. 70.09-70.11: Quartz stringer at 63° to C.A.	70°			

From	To	Rock Name	Description	CA	From	To	Sample No.
70.12	70.52	Biotite chlorite schist	Similar to above. Foliation at 55° to C.A. Contains a number of quartz stringers up to 5 mm, parallel to foliation. 70.25-70.29: Quartz stringer at 55° to C.A.	55°			
70.52	70.80	Quartzite	Similar to above. Vague foliation at 65° to C.A. 70.71-70.76: Chlorite biotite band.	65°			
70.80	72.18	Biotite chlorite schist	As above. Foliation at 75° to C.A. Contains a number of quartz patches up to 3 cm. 71.18 : 5 mm quartz stringer at 65° to C.A. 71.59-71.60: Slightly rusty quartz stringer at 60° to C.A. 71.73-71.74: Quartz stringer at 82° to C.A. 71.84-72.18: Core highly broken up. 71.84 : Open seam, sand recovered. 71.90-72.07: Quartz chips recovered.	75°			
72.18	75.90	Quartzite	As above. Vaguely foliated at 70° to C.A. Fractured at 30° and 15° to C.A. Fractures often chloritic. A few schist bands present. 72.50-72.52: Quartz stringer at 70° to C.A. 72.60-72.88: Lightly brecciated, quartzite fragments up to 1 cm in chloritic matrix.	70°			
75.90	76.38	Chloritic band	Dark green, fairly massive chloritic section. Foliation at 70° to C.A. 76.00-76.09: Quartz stringer at 60° to C.A.	70°	75.90	76.38	40176

From	To	Rock Name	Description	CA	From	To	Sample No.
			Fractured, nearly parallel to C.A. Fractures rusty. 76.22-76.38: Nearly massive chlorite. 76.23 : 4 cm quartz patch, contains 5% chalcopyrite, traces sphalerite. 76.23-76.30: Contains estimated 4% chalcopyrite.				
76.38	80.98	Quartzite	Similar to above, contains a few narrow chlorite-biotite bands. 77.50-77.83: Core badly broken, only chips recovered. 78.60-78.70: Soft mud and drilling additives recovered. 80.55-80.90: "quartz-eye quartzite", dark quartz 'eyes' in pale quartzite matrix. 'Eyes' are coarser at top of unit, much finer below.				
80.98	81.25	Biotite chlorite schist	As above, foliation at 47° to C.A. 81.13-81.18: Mud seam, only soft mud recovered.	47°			
	81.25	END OF HOLE	Hole stopped because advance less than 1m per cement job.				

CAMPBELL RESOURCES INC.
DIAMOND DRILL LOG

VENTURE CORTIN

PROJECT

PROPERTY EPD

LOCATION

GRID

Location 99+75.3N

Section 102+98.3W

Bearing 350°

Dip -60°

Length 139m

TESTS

TROPARI

Depth	Mag Brg	Corr Brg	Dip
30.93			
121.92			

ACID

Dip[2]
63°
59°

SURVEY

Latitude

Departure

Elevation

Bearing

Dip

PHYSICAL DATA

Core Size NQ to 139m , to

Date Started August 14, 1980

Date Completed August 20, 1980

Casing Pulled Yes

Core Recovery 95.8%

Cemented No

Core Location: In storage at Oliver Creek camp site 115-P-15

Logged by D.R. Kennedy

Contractor Arctic Diamond Drilling

NOTES: 1) Give reference - Magnetic,Grid,True

2) Corrected dip.

DDH No. 80-08

From	To	Rock Name	Description	CA	From	To	Sample No.
0.00	5.80	Casing	Through overburden				
5.80	7.74	Quartzite	Light grey, fairly massive, vaguely foliated at 55° to C.A. Contains numerous micaceous partings and occasional biotite chlorite schist bands up to 1 cm. Core highly broken up. 6.91 : 1 cm quartz patch 7.09-7.11: Quartz stringer at 50° to C.A.	55°	6.00 7.00	7.00 8.00	40177 40178
7.74	8.31	Biotite chlorite schist	Foliated at 60° to C.A. Light grey. 7.74-7.77: Quartz stringer at 62° to C.A. Contains 10% chlorite. 8.06-8.20: Numerous quartz patches up to 1 cm. 8.20-8.28: Soft mud seam. Clay and sand recovered.	60°			
8.31	9.25	Quartzite	Similar to above, vaguely foliated at 75° to C.A. 8.90-9.00: Some obvious cave, dark green chloritic material.	75°			
9.25	9.40	Micaceous schist	Light grey, well foliated at 67° to C.A. Contains abundant muscovite-sericite.	67°			
9.40	9.70	Ground Core					
9.70	9.90	Quartzite	Only chips recovered. Some quartz stringers to 1 cm evident.				
9.90	11.30	Ground Core					
11.30	11.50	Quartzite	Only chips recovered.				

From	To	Rock Name	Description	CA	From	To	Sample No.
11.50	12.50	Ground Core					
12.50	13.10	Biotite chlorite schist	Only chips recovered, estimate 50% recovery. Some quartz stringers evident from abundant quartz chips.				
13.10	13.47	Chloritic band	Dark green, hard, contains traces pyrite and sphalerite. Fractured at 60° and 25° to C.A. 13.30-13.47: Becoming extremely rusty.		13.10 13.47	13.47 14.57	40179 40180
13.47	14.57	Gouge zone?	Yellow-brown mud and core chips recovered. Extremely rusty. 14.42-14.48: Extremely vuggy, yellow-brown core recovered.				
14.57	14.80	Quartzite	Rusty, vaguely foliated at 50° to C.A.	50°			
14.80	14.90	Ground Core					
14.90	15.36	Quartzite	Rusty, becoming less so down section. Vaguely foliated at 60° to C.A. Numerous micaceous partings. Fractured at 30° and 75° to C.A. Fractures rusty, often coated with black FeMn stain.	60°			
15.36	15.45	Biotite chlorite schist	Similar to above, foliated at 65° to C.A.	65°			
15.45	15.62	Quartzite	Similar to above section. Less rusty.				
15.62	16.75	Biotite chlorite schist	Similar to above, well foliated at 58° to C.A. 15.67-15.75: Quartzite band, 16.29-16.31: Quartz stringer at 65° to C.A. Slightly rusty.	58°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			16.44-16.45: Quartz stringer at 60° to C.A. 16.50-16.52: Quartz stringer at 64° to C.A. 16.57-16.66: Quartz stringer at 68° to C.A.				
16.75	17.40	Quartzite	Similar to above. Vaguely foliated at 58° to C.A. Contains occasional narrow schist bands. 16.80-16.88: Quartz stringer at 70° to C.A. Contains 10% chlorite, 2% sphalerite, traces chalcopyrite. 16.96-17.03: Quartz stringer at 70° to C.A. Contains 3% chlorite, slightly rusty.	58°			
17.40	17.80	Ground Core					
17.80	18.66	Quartzite	As above. 17.80-17.97: Rusty chips recovered. 17.97-18.05: Biotite chlorite schist band. 18.30-18.34: Silvery-grey fine mud recovered. 18.34-18.39: Quartz stringer at 75° to C.A. 18.39-18.50: Biotite chlorite schist band. 18.50-18.52: Quartz stringer at 75° to C.A.				
18.66	21.30	Biotite chlorite schist	Medium grey-green, slightly softer than previous sections, foliated at 60° to C.A. Occasional rusty fractures. 20.00-21.30: More fracturing and chloritic alteration than previous sections, several narrow(2-3 cm) dark sulphide rich zones. 20.37-20.39: Quartz stringer at 55° to C.A. Slightly rusty.	60°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			20.60-20.76: Slightly rusty. 20.76-20.77: Quartz stringer at 60° to C.A. Slightly rusty. 20.80-21.00: Rusty chips and mud recovered. 21.00-21.35: Extremely rusty, yellow-brown color. Very soft. 21.17-21.18: 3 cm quartz patch.				
21.30	21.98	Quartzite	Contains a few narrow schist bands. Vaguely foliated at 65° to C.A. 21.54-21.68: Estimate 70% quartz as patches in chloritic section.	65°			
21.98	23.64	Biotite chlorite schist	Similar to above, contains a few narrow quartzite bands. 21.99-22.02: Several quartz stringers up to 7 mm at 80° to C.A. 22.03-23.64: Well fractured, altered. 22.03 : Rusty fracture at 28° to C.A. 22.55-23.00: Somewhat rusty. Generally yellow-brown.		22.20	23.20	40181
23.64	23.97	Quartzite	Massive, light grey. Vaguely foliated at 65° to C.A. 23.83-23.86: Quartz stringer at 60° to C.A. Slightly rusty. 23.94 : 3 mm quartz stringer at 65° to C.A.	65°			
23.97	25.01	Biotite chlorite schist	Similar to above. 24.02-24.05: Slightly rusty quartz stringer at 60° to C.A. 24.18 : Open fracture at 25° to C.A. Coated with FeMn stain.				

From	To	Rock Name	Description	CA	From	To	Sample No.
			24.40 : Fracture at 20° to C.A. Coated with red-brown stain.				
25.01	26.07	Quartzite	Massive, numerous chloritic partings, generally at 55° to C.A. 25.05-25.15: Quartz stringer at 85° to C.A. Slightly rusty, contains 10% chlorite. 25.64-25.83: Quartz stringer at 65° to C.A. Somewhat rusty, contains 10% chlorite.	55°			
26.07	26.63	Biotite chlorite schist	As above. Foliation at 73° to C.A.	73°			
26.63	27.00	Quartzite	Light grey, massive, fractured at 50° and 35° to C.A. Fractures generally rusty. A few chloritic partings at 70° to C.A. 26.85-26.92: Quartz patch, slightly rusty.	70°			
27.00	27.27	Biotite chlorite schist	As above, foliated at 80° to C.A. 27.04-27.08: Quartz patch 27.21-27.23: Quartz stringer at 80° to C.A.	80°			
27.27	27.49	Quartzite	Grey, massive, vaguely foliated at 70° to C.A.	70°			
27.49	27.63	Biotite chlorite schist	As above, foliation at 70° to C.A. 27.52 : 5 mm quartz stringer at 70° to C.A.				
27.63	28.10	Quartzite	As above 27.80-28.00: Rusty zone 27.94 : Open fracture at 35° to C.A.				

From	To	Rock Name	Description	CA	From	To	Sample No.
			Coated with red-brown material. 27.98 : Open rusty fracture at 45° to C.A.				
28.10	28.19	Biotite chlorite schist	As above, foliation at 75° to C.A.	75°			
28.19	29.63	Quartzite	Light grey, massive, vaguely foliated at 45° to C.A. Contains several biotite chlorite schist bands up to 10 cm. Several rusty fractures at 50° and 20° to C.A. 28.28-28.29: Quartz stringer at 50° to C.A. 28.35-28.46: Biotite chlorite schist band. 28.47-28.49: Quartz stringer at 78° to C.A.	45°			
29.63	32.07	Biotite chlorite schist	More highly contorted than previous sections. Contains several up to 2 mm quartz stringers parallel to foliation, generally at 55° to C.A. Several slightly rusty bands parallel to foliation. Occasionally fractured at 22° and 68° to C.A. 30.00-30.01: Quartz stringer at 65° to C.A. 30.30-30.40: Several rusty patches up to 2 cm 30.40-30.70: Several smaller quartz patches in badly broken core. 31.07-31.08: Quartz stringer at 84° to C.A. 31.28-31.30: Slightly rusty quartz stringer at 73° to C.A.	55°	29.63	30.63	40182

From	To	Rock Name	Description	CA	From	To	Sample No.
			31.34-31.37: Slightly rusty quartz stringer at 75° to C.A. 31.66-31.68: Soft mud and chips recovered. 32.01-32.06: Quartz stringer at 72° to C.A. Contains 5% chlorite.				
32.07	32.55	Quartzite	Slightly rusty, fairly massive, contains a few rusty fractures at 60° to C.A. Vaguely foliated at 67° to C.A. 32.16 : 3 cm quartz patch	67°			
32.55	33.36	Biotite chlorite schist	Similar to above, foliation at 62° to C.A.	62°			
33.36	33.53	Quartzite	Hard, light grey, fairly massive. Contains a number of chloritic quartz patches. Vaguely foliated at 66° to C.A.	66°			
33.53	33.86	Biotite chlorite schist	Similar to above. Foliation at 55° to C.A.	55°			
33.86	34.29	Tuff band?	Extremely hard, fine grained, dark grey, with rusty fractures at 55° and 5° to C.A.				
34.29	35.55	Biotite chlorite schist	Slightly rusty, harder than some sections. Foliated at 66° to C.A. Contains a few fractures at 45° to C.A., coated with black FeMn stain.	66°			
35.55	36.75	Quartzite	Slightly rusty, fairly massive. Contains a number of chloritic partings at 55° to C.A. 36.50-36.75: Estimate 80% quartz. Rusty.	55°	35.05	36.75	40389

From	To	Rock Name	Description	CA	From	To	Sample No.
36.75	38.87	Biotite chlorite schist	Well foliated at 65° to C.A. Contains a number of 1-2 mm quartz stringers parallel to foliation. Softer, more micaceous than some sections. Contains a number of rusty fractures, generally at 30° to C.A. 37.05-37.15: Slightly rusty quartz stringer at 68° to C.A. 37.23-37.30: A number of quartz patches up to 3 cm.	65°	36.75	37.87	40390
			Estimate 50% quartz.		37.87	38.87	40183
			37.54-37.60: Rusty quartz stringer at 73° to C.A. 38.08-38.10: Slightly rusty quartz stringer at 30° to C.A. 38.25-38.40: Visible cassiterite. 38.44-38.54: Quartz stringer, contacts obscured in broken core. Contains 10% chlorite. 38.58 : 5 mm quartz stringer at 50° to C.A.				
38.87	39.16	Quartzite	Similar to above. 39.10-39.16: Rusty quartz stringer at 57° to C.A. Fractured at 25° and 30° to C.A.		38.87	39.16	40184
39.16	39.55	Biotite chlorite schist	As above. 39.16-39.29: Highly chloritic section. Similar to above.		39.16	39.55	40185
					39.55	39.83	40186
39.55	39.83	Quartzite	Similar to above.		39.83	39.91	40187
39.83	39.91	Chloritic band	Soft, dark green, mostly chlorite with some biotite.		39.91	40.55	40188

From	To	Rock Name	Description	CA	From	To	Sample No.
39.91	40.55	Quartzite	Similar to above, vaguely foliated at 63° to C.A. 40.21-40.35: Appears slightly brecciated, angular quartzite pieces in chloritic matrix.	63°	40.55 41.55	41.55 41.92	40189 40190
40.55	41.92	Biotite chlorite schist	Similar to above. 40.55-41.05: Highly chloritic. Contains a number of rusty fractures at 10° and 40° to C.A. 40.80-41.00: Visible cassiterite. 41.14-41.18: Slightly rusty quartz patch, contains 5% chlorite. 41.31-41.32: Slightly rusty quartz stringer at 77° to C.A. Contains traces pyrite. 41.55-41.92: Section slightly contorted. Foliation generally at 66° to C.A. Contains occasional quartz patches.				
41.92	42.19	Quartzite	Similar to above.		41.92	42.19	40191
42.19	42.42	Chlorite biotite schist	Dark green, soft, foliation at 65° to C.A. Contains a few rusty fractures at 50° and 15° to C.A.	65°	42.19	42.42	40192
42.42	43.00	Quartzite	Fairly massive, contains a number of chloritic partings and occasional chlorite biotite bands at 60° to C.A. Contains a few rusty fractures at 50° and 20° to C.A.	60°	42.42	43.00	40193
43.00	45.74	Biotite chlorite schist	Dark green to black, well foliated at 65° to C.A. Numerous rusty fractures at 58° and 25° to C.A. Mostly limonite.	65°	43.00 44.00	44.00 45.00	40194 40195

From	To	Rock Name	Description	CA	From	To	Sample No.
			43.00-43.40: Estimate 50% quartz as patches and stringers up to 1 cm at 58° to C.A. 43.64-43.65: Quartz stringer at 35° to C.A. 44.03 : 3 mm quartz stringer at 65° to C.A. 44.06-44.20: Estimate 3% sphalerite, 3% pyrite.. 44.10-44.27: Visible cassiterite. 44.45 : 3 cm quartz patch, contains traces pyrite. 44.70 : 6 mm quartz stringer at 60° to C.A. 45.00-45.11: Chloritic band at 62° to C.A. Contains 1.5 cm bleb chalcopyrite. Estimate 7% sphalerite, several traces malachite. 45.00-45.74: Core soft, highly broken up, a number of rusty seams up to 1 cm.		45.00	45.74	40196
45.74	45.93	Quartzite	As above. Some limonite staining.		45.74	45.93	40197
45.93	46.25	Biotite chlorite schist	As above.		45.93	46.25	40198
46.25	47.30	Quartzite breccia	Quartzite fragments 80% cemented with chloritic matrix, contains a number of rusty fractures at 40° and 30° to C.A. Abundant FeMn staining.		46.25	47.30	40199
47.30	47.49	Biotite chlorite schist breccia	Schist fragments cemented by chloritic matrix, only chips recovered. Very minor visible cassiterite		47.30	47.49	40200

From	To	Rock Name	Description	CA	From	To	Sample No.
47.49	47.64	Mud Seam	Soft grey mud recovered.		47.49	47.64	40201
47.64	49.20	Biotite chlorite schist (breccia)	Lightly brecciated, soft, contains a number of rusty fractures at 45° to C.A. Occasional traces pyrite. 48.20-48.30: Minor visible cassiterite. 48.60-48.90: Chips and sand recovered.		47.64 48.64	48.64 49.20	40202 40203
49.20	49.50	Ground Core					
49.50	49.64	Mud Seam	Soft, grey mud and sand recovered.		49.50	49.64	40204
49.64	51.00	Quartzite (breccia)	Quartzite fragments 80% cemented by rusty chloritic matrix. Core highly broken up. Occasional narrow chloritic bands. Vague foliation in lower part of section at 65° to C.A.	65°	49.64 50.64	50.64 51.00	40205 40206
51.00	52.30	Quartzite	Medium grey, fairly massive. Contains a number of chloritic partings at 70° to C.A. 51.59-51.61: Quartz stringer at 75° to C.A. Contains 5% chlorite. 51.69-51.71: Quartz stringer at 65° to C.A.	70°			
52.30	52.70	Ground Core					
52.70	52.98	Quartzite	As above				
52.98	53.60	Biotite chlorite schist	Core highly broken up.				
53.60	53.90	Quartzite	As above.				

From	To	Rock Name	Description	CA	From	To	Sample No.
53.90	54.50	Biotite chlorite schist	Light to medium grey, fairly hard, less micaceous than previous sections. Contains occasional rusty fractures at 35° to C.A.		53.50	54.50	40337
54.50	55.50	Ground Core					
55.50	55.67	Mud Seam	Soft grey mud recovered		55.50	55.67	40207
55.67	56.10	Ground Core					
56.10	57.40	Biotite chlorite schist	Dark grey, finely foliated at 70-80° to C.A. Very soft, core badly broken up.	70-80°	56.10	57.10	40338
57.40	62.65	Quartzite	Light grey, fine grained, massive. Contains numerous chloritic partings at 70° to C.A. Occasional fractures at 5° and 55° to C.A.	70°			
			57.46-57.52: Quartz stringer at 80° to C.A. Contains rare traces malachite in fractures nearly parallel to C.A.		60.50	61.50	40208
					61.50	62.50	40209
					62.50	62.65	40210
			57.68-57.70: Slightly rusty quartz stringer at 80° to C.A.				
			59.66-59.70: Quartz stringer at 64° to C.A. Contains 5-10% chlorite, fractured at 15° and 45° to C.A.				
			60.00-60.30: Core highly broken up.				
			60.90 : 3 cm quartz patch. Contains traces chlorite.				
			61.20-62.65: Appears shattered, quartzite fragments are surrounded by secondary ?chlorite, no movement evident.				

From	To	Rock Name	Description	CA	From	To	Sample No.
			Vaguely foliated at 65° to C.A. Some pyrite present. 61.72-61.64: 2.5 cm quartz patch.				
62.65	63.56	Chloritite? possible greenstone	Dark green, fine grained, soft. Contains estimated 3-4% sphalerite, 3% pyrite, most of pyrite in section 63.30-63.56		62.65	63.56	40211
63.56	66.17	Quartzite	Light grey, fine grained. Contains numerous chloritic partings at 10° - 15° to C.A. Abrupt change in foliation indicates fault at 63.56?? Section contains several rusty fractures at 10° to C.A. 63.94 : Rusty, vuggy quartz stringer at 20° to C.A. 65.03 : Hairline fracture filled with chalcopyrite at 20° to C.A. 65.30 : 3 mm rusty, vuggy quartz stringer at 20° to C.A. Traces chalcopyrite. 65.70 : 3 mm rusty quartz stringer at 40° to C.A. 65.81 : 2 mm rusty quartz stringer at 25° to C.A. 66.00 : Foliation at 35° to C.A.	10-15°			
66.17	68.40	Biotite chlorite schist	Dark grey-green, foliated at 55-65 to C.A. 66.30-66.65: Estimated 30% quartz, mostly as patches and as stringers at 65° to C.A. 66.95-67.10: Estimated 3% pyrite in chlorite rich section 68.18-68.23: Quartz stringer at 15° to C.A. Contains 5% chlorite	55-65°	67.40	68.40	40339
68.40	68.60	Ground Core					

From	To	Rock Name	Description	CA	From	To	Sample No.
68.60	68.70	Quartzite	Core chips only recovered.				
68.70	68.90	Biotite chlorite schist	Core chips only recovered.				
68.90	69.23	Quartzite	Grey, fine grained, massive. Contains numerous chloritic partings at 52° to C.A. 68.90-69.00: Quartz vein at 40° to C.A. carries patchy dark green chlorite. 69.00-69.10: 1 cm band dark green chlorite. Minor visible cassiterite, then brecciated quartzite - probably no movement. 2 bands of solid cassiterite as pink-brown, clasts with chloritic fractures between. 69.10-69.23: Grey fine grained quartzite. Minor chlorite & chloritic partings. Trace visible cassiterite only.	52°	68.60 68.90	68.90 69.23	40340 40212
69.23	72.80	Biotite chlorite schist	Dark green to black, highly foliated at 67° to C.A. Contains numerous quartz patches and stringers up to 1 cm. 70.31-70.33: Quartz stringer at 70° to C.A. 70.58-70.64: Quartz stringer at 50° to C.A. 70.89-70.95: Quartz stringer at 85° to C.A. 71.00-71.08: Quartz patch, contains 5% chlorite. 71.66-71.80: Estimated 35% quartz, mostly as irregular stringers, generally at 70° to C.A.	67°	69.23	70.23	40213

From	To	Rock Name	Description	CA	From	To	Sample No.
			71.88-71.90: Quartz stringer at 65° toC.A. 72.19-72.20: Quartz stringer at 50° toC.A.				
72.80	73.33	Quartzite	As above, chloritic partings at 53° to C.A. Contains several quartz stringers less than 1 cm, generally at 50° - 55° to C.A.	53°			
73.33	74.00	Biotite chlorite schist	Similar to above. Highly fractured at 20° and 50° to C.A., fractures filled with cream colored soft material. 73.46-73.48: Quartz patch, contains traces 73.80-73.82: Quartz stringer at 85° to C.A.				
74.00	75.64	Quartzite	As above. Contains a few chloritic partings at 65° to C.A. and a few rusty fractures at 15°-25° to C.A.	65°			
75.64	75.84	Biotite chlorite schist	As above. Foliation at 63° to C.A.	63°			
75.84	75.93	Diorite Dyke?	Grey, fine grained, sharp contacts at 35° to C.A. Cuts foliation. Contains rusty fractures at 25° to C.A.				
75.93	76.93	Biotite chlorite schist	Dark grey to black, foliated at 80° to C.A. Similar to above section.	80°			
76.93	79.45	Quartzite	Medium grey, fine grained, massive. Contains a number of fractures filled with quartz and quartz carbonate, generally at 25° to C.A. 77.41-77.46: Mud seam at 65° to C.A. 77.76-77.82: Mud seam at 60° to C.A.		77.00	78.00	40214

From	To	Rock Name	Description	CA	From	To	Sample No.
79.45	79.57	Biotite chlorite schist	Similar to above, foliation at 66° to C.A.	66°			
79.57	79.85	Quartzite	As above. Contains a few rusty fractures at 20° to C.A.				
79.85	82.00	Biotite chlorite schist	As above. Foliation at 60° to C.A. 80.72-81.10: Extremely soft, badly broken in part. Mud recovered.	60°			
82.00	82.74	Quartzite	Light grey, contains numerous chloritic partings at 70° to C.A. 82.67 : 5 mm quartz stringer at 70° to C.A.	70°			
82.74	83.19	Quartzite breccia	Quartzite fragments 60% in chloritic matrix. 82.79-82.85: Mostly quartz fragments in broken core. 82.97-82.98: Soft mud seam at 70° to C.A.				
83.19	85.18	Biotite chlorite schist	Similar to above. Foliated at 65°-70° to C.A. Occasional rusty fractures, generally at 25°-30° to C.A. 84.26 : 3 mm fracture at 25° to C.A. Filled with soft rusty mud.	65-70°			
85.18	87.88	Quartzite	Cream colored, hard, massive, fractured at 35° and 40° to C.A. Fractures filled with chloritic material, occasionally rusty. 85.50-86.20: Occasional pink stain.		85.00 86.00	86.00 86.88	40215 40341
87.88	88.20	Quartzite breccia	50% quartzite fragments, generally less than 5 mm, in muddy brown matrix.(tourmaline?)		86.88 87.88 88.20 89.20	87.88 88.20 89.20 89.50	40342 40216 40343 40344

From	To	Rock Name	Description	CA	From	To	Sample No.
88.20	92.75	Quartzite	Massive, as above. Occasional rusty fractures at 60° and at 20° to C.A. Occasional narrow quartz stringers up to 3 mm parallel to vague foliation at 60° to C.A. 90.20-92.75: Quartz-eye quartzite.	60°	89.50 90.50 91.50	90.50 91.50 92.50	40217 40218 40219
92.75	93.00	Ground Core					
93.00	93.18	Quartzite	As above.				
93.18	93.73	Biotite chlorite schist	Dark grey to black, well foliated at 55°-60° to C.A. 93.73-93.74: Quartz stringer at 70° to C.A. Vuggy. 93.37-93.41: Quartz stringer at 40° to C.A. Contains 5% chlorite. 93.53-93.64: Quartz stringer at 55° to C.A. Contains 8-10% chlorite.	55-60°			
93.73	96.65	Quartzite	Massive, light grey, fractured at 15° and 40° to C.A. Fractures usually filled with chlorite. Contains numerous chloritic partings at 60°-65° to C.A. 95.40-95.63: Several rusty fractures at 25° and 45° to C.A.	60-65°	95.00	96.00	40220
96.65	100.50	Quartzite with biotite chlorite schist bands	Similar to above, but contains several schist interbands. Generally less than 10 cm. Schist bands are well foliated at 60° to C.A. 97.10-97.28: Schist band, wider than normal. 97.36 : Fracture at 20° to C.A. Filled with quartz carbonate material.	60°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			97.58 : 4 mm quartz carbonate stringer at 60° to C.A. 97.84-97.93: Schist band, contains 50% quartz as patches and narrow stringers. 98.32-98.36: Quartz stringer at 60° to C.A., contains traces pyrrhotite and chalcopyrite. 98.46-98.54: Quartz stringer at 60° to C.A. Contains ± 1% pyrrhotite, traces chalcopyrite. 98.80-98.95: Traces disseminated pyrrhotite, rare traces disseminated chalcopyrite.				
100.50	104.08	Biotite chlorite schist with quartzite bands	Similar to above, but becoming more schistose, more than 50% schist bands. Foliation at 45°-50° to C.A. 102.68 : 2 mm quartz stringer at 65° to C.A., contains traces pyrrhotite and chalcopyrite. 102.92-103.10: Quartzite band, contains estimated 1% pyrrhotite, rare traces chalcopyrite as disseminations. 104.0 : Traces malachite in vug in quartz band.	45-50°	101.50 102.50	102.50 103.50	40221 40222
104.08	106.65	Xtal tuff?	Hard, light grey, contains quartz crystals up to 2 mm. Lightly foliated at 50° to C.A. 105.35 : A few traces disseminated pyrrhotite.	50°			
106.65	109.45	Quartzite	Med. grey, massive, hard, foliated at 50°-55° to C.A. Contains numerous rusty fractures at	50-55°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			35° to C.A. Occasional quartz carbonated fractures at 30° and 50° to C.A.				
109.45	115.18	Biotite schist	Dark grey to black, well foliated at 60°-65° to C.A. Contains numerous quartz and quartz carbonate stringers parallel to foliation. Generally 1.2 mm 109.30-109.45: Irregular quartz patch, contains very minor chlorite. 109.66 : 4 mm quartz carbonate stringer at 65° to C.A. 114.38 : 7 mm quartz stringer at 55° to C.A. 114.45 : 6 mm quartz stringer at 65° to C.A. 114.92-114.94: Quartz stringer at 68° to C.A.	60-65°	113.00	114.00	40223
115.18	115.33	Quartzite	Medium grey, hard, massive. Fractured at 55° to C.A. Fractures filled with quartz. Estimated 15% quartz present				
115.33	115.50	Biotite chlorite schist	As above. Well foliated at 55° to C.A.				
115.50	116.90	Quartzite	Medium grey, hard, contains black fragments and quartz crystals up to 2 mm. Vaguely foliated at 55° - 60° to C.A.	55-60°			
116.90	122.49	Biotite chlorite schist	Dark grey to black, similar to above. Quartz carbonate seems up to 5 mm, heavy chloritic alteration present. 117.06-117.26: Mud seam, core chips and mud recovered.		117.00	118.00	40224

From	To	Rock Name	Description	CA	From	To	Sample No.
			117.30-117.31: Quartz carbonate stringer at 55° to C.A. 117.51-117.69: Estimate 40% quartz carbonates as stringers at 65° to C.A. 117.91-117.94: Quartz patch, contains several traces rotted sulphides. 119.15-119.17: Quartz carbonate stringer at 40° to C.A. 119.50-119.51: Quartz stringer at 78° to C.A. 120.20-121.40: Lighter grey section, with very little biotite.				
122.49	122.61	Quartzite	Light to medium grey, fine grained, massive.				
122.61	123.07	Biotite chlorite schist	Light to medium grey, contains less biotite and chlorite than above section. Foliated at 70° to C.A.	70°			
123.07	124.30	Quartzite with a few biotite chlorite schist interbands	Light grey with a few darker, narrow bands schist. Vague foliation at 60°-65° to C.A. Contains occasional fractures at 10° and 65° to C.A. Usually filled with quartz or quartz carbonate.	60-65°			
124.30	125.81	Interbanded quartzite and biotite chlorite schist	Bands of fairly massive quartzite, typically less than 15 cm, interbanded with biotite chlorite schist. 124.43-124.45: Quartz stringer at 65° to C.A. Contains minor chlorite. 124.90 : 2.5 cm quartz patch. 125.06-125.12: Quartz stringer at 65°				

From	To	Rock Name	Description	CA	From	To	Sample No.
			to C.A. Contains 15% chlorite. 125.78-125.81: Quartz patch				
125.81	127.05	Quartzite	Light grey, massive. Occasional vague foliation at 80° to C.A. 126.95-127.04: Quartz stringer at 65° to C.A. Contains traces pyrrhotite and rare traces pyrite.	80°			
127.05	128.62	Biotite chlorite schist	Medium grey, foliated at 70° to C.A. Contains occasional quartz stringers parallel to foliation up to 1 cm. 127.53 : 2 mm quartz patch, contains traces pyrrhotite and pyrite. 128.00-128.06: Quartz stringer at 70° to C.A. Contains traces chlorite. 128.21-128.22: Quartz stringer, upper contact 60° to C.A. lower contact irregular, but generally 30° to C.A. Contains 1% pyrrhotite and traces chalcopyrite	70°			
128.62	128.95	Quartzite	Fine grained, massive. Contains occasional rusty fractures at 20° to C.A. 128.92-128.95: Quartz stringer at 70° to C.A.				
128.95	129.15	Biotite chlorite schist	As above. Foliated at 55° to C.A., contains several quartz stringers up to 1 cm parallel to foliation.	55°			

From	To	Rock Name	Description	CA	From	To	Sample No.
129.15	129.38	Quartzite	Medium grey, fine grained, massive. 129.30-129.31: Quartz stringer at 50° to C.A. 129.36-129.37: Quartz stringer at 50° to C.A.				
129.38	130.95	Biotite chlorite schist	Similar to above. Foliated at 75° to C.A. Estimate 15-20% quartz present, mostly as stringers up to 2 cm and occasionally as patches. Stringers generally parallel to foliation. A few rusty fractures present at 50°-55° to C.A. 130.82-130.85: Quartz stringer at 35° to C.A. Contains 1% chlorite	75°			
130.95	132.00	Quartzite	Grey, contains a few narrow schist bands and several quartz stringers up to 1 cm at 70°-75° to C.A. Vaguely foliated at 70°-75° to C.A. 131.00-131.02: Slightly rusty, muddy seam at 45° to C.A. 131.75 : 1 mm fracture at 10° to C.A. Filled with slightly rusty quartz carbonate.	70-75°			
132.00	135.42	Biotite chlorite schist	Similar to above, a few narrow quartzite bands present, generally less than 5 cm. Foliation generally 55 -65° to C.A. 132.20 : 3 mm quartz carbonate stringer at 20° to C.A. 132.97-133.36: Estimate 40% quartz as patches and narrow	55-65°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			stringers generally at 75° to C.A. 134.14-134.21: Quartz stringer at 85° to C.A.				
135.42	139.00	Tuff???	Grey-green, mottled appearance due to presence of quartz carbonate flakes, extremely hard, fine grained. Contains numerous black bands which appear at first glance to be biotite, but are much too hard. Foliation at 70° to C.A. Contains occasional traces disseminated chalcopyrite, contains a few fractures at 20° and 40° to C.A., filled with quartz carbonate 137.58 : Fracture at 50° to C.A. Filled with rotted sulphide. 138.80 : Quartz carbonate stringer at 10° to C.A. Contains traces rotted sulphides.	70°	137.00	138.00	40225
	139.00	END OF HOLE					

CAMPBELL RESOURCES INC.
DIAMOND DRILL LOG

VENTURE CORTIN

PROJECT

PROPERTY EPD

LOCATION

GRID

Location 99+75.3N

Section 102 98.3W

Bearing 350° true

Dip -45°

Length 72.50m

TESTS

TROPARI

Depth	Mag Brg	Corr Brg	Dip

ACID

Dip²

SURVEY

Latitude

Departure

Elevation

Bearing

Dip

PHYSICAL DATA

Core Size NQ to 72.50m, to

Date Started August 23, 1980

Date Completed August 25, 1980

Casing Pulled Yes

Core Recovery 87.7%

Cemented No

Core Location: In storage at Oliver Creek camp site 115-P-15

Logged by David R. Kennedy

Contractor Arctic Diamond Drilling

NOTES: 1) Give reference - Magnetic, Grid, True

2) Corrected dip.

DDH No. 80-09

From	To	Rock Name	Description	CA	From	To	Sample No.
0.00	9.10	Casing	Through overburden. Several boulders encountered. Material in box above 9.10 marker is boulder; mostly rusty brown quartzite, a few biotite chlorite pieces.				
9.10	12.92	Quartzite	Medium grey, fine grained, fairly massive looking where not destroyed by drilling. Contains numerous chloritic partings, generally at 50°-60°, contains numerous quartz stringers parallel to chloritic partings, typically 3-5 mm. Core is highly broken up, recovery fair to good. 9.24-9.36: Quartz stringer. Contact obscured in broken core, fractured. Fractures filled with chlorite. 10.62-10.63: Quartz stringer at 60° to C.A.	50-60°			
12.92	13.15	Biotite chlorite schist	Dark green grey, highly fissile, chips only recovered. A few narrow quartzite bands present as evidenced by two 3 cm quartzite pieces.				
13.15	14.00	Ground Core					
14.00	15.00	Quartzite	Similar to above, core badly broken up.		14.00	15.00	40226
15.00	15.36	Quartzite breccia	Quartzite fragments up to 1.5 cm in black tourmaline?/chlorite matrix. Soft, probably much of this section ground.		15.00	15.36	40227
15.36	17.70	Ground Core			17.70	18.04	40228
17.70	18.04	Biotite chlorite schist	Dark green-grey, well foliated at 50°-55° to C.A. Section slightly rusty.	50-55°			

From	To	Rock Name	Description	CA	From	To	Sample No.
18.04	18.80	Breccia	Quartzite and biotite chlorite schist fragments in chlorite? matrix. Very soft, core highly broken up. Mostly chips, some grinding evident. 18.2 : Trace Pyrrhotite?		18.04	18.80	40229
18.80	18.90	Ground Core			18.90	19.37	40230
18.90	19.37	Breccia	As above, but stained rusty brown.				
19.37	20.10	Ground Core					
20.10	21.06	Breccia	As above, slightly rusty.		20.10	21.06	40231
21.06	22.05	Biotite chlorite schist	Dark green grey, foliated at 55° to C.A. Numerous rusty fractures at random angles to C.A. 21.58-21.65: Rusty, vuggy, contacts obscured in broken core. 21.81-21.82: Quartz stringer at 55° to C.A. Minor visible cassiterite at 21.40.	55°	21.06	22.05	40232
22.05	23.47	Quartzite	Light grey, contains numerous micaceous partings at 5°-15° to C.A. Core highly broken up, recovery good.		22.05 23.00	23.00 23.47	40233 40234
23.47	23.70	Biotite chlorite schist	Soft core, badly broken up, foliation at 40° to C.A.	40°	23.47	23.70	40235
23.70	24.85	Ground Core					
24.85	26.25	Interbedded biotite chlorite			24.85 25.85	25.85 26.25	40236 40237

From	To	Rock Name	Description	CA	From	To	Sample No.
		schist and quartzite	Several quartzite pieces, typically 5-10 cm. Good core, separated by chips of rusty micaceous schist. Vague foliation in quartzite.				
26.25	26.40	Ground Core					
26.40	27.93	Biotite chlorite schist	Dark green, well foliated at 60-70° to C.A. Contains a few quartz patches and stringers. Core is broken up, but less than previous sections. 26.48-26.50: Quartz stringer at 55° to C.A. Contains 5% chlorite. 27.15-27.18: Quartz stringer at 75° to C.A. 27.22-27.25: Quartz stringer at 65° to C.A. 27.34-27.36: Quartz stringer at 65° to C.A. 27.53-27.70: Rusty, soft section, stained yellow brown 27.80-27.93: Soft, rusty, vuggy seam, yellow brown, some loss probable.	60-70°	26.40 27.40	27.40 27.93	40238 40239
27.93	30.05	Quartzite with minor schist interbands	Light grey, fairly massive, hard, contains a number of 1-2 cm schist bands, generally at 60° to C.A. Highly fractured at random angles to C.A. Fractures generally rusty. 28.20-28.25: Quartz chips in broken core. Contacts obscure. 29.09-29.95: Quartzite looks shattered, estimate 5-10% chlorite in fractures. No movement evident.	60°	27.93 29.00	29.00 30.05	40240 40241

From	To	Rock Name	Description	CA	From	To	Sample No.
30.05	31.35	Quartzite breccia with minor schist bands	Quartzite chips in chloritic matrix. 30.35-30.38: Massive chlorite band at 85° to C.A. 30.38-30.50: Quartzite, vuggy, matrix has been washed away. Brown stain on edges. 30.90-31.10: Highly brecciated, quartzite fragments to 1.5 cm in black(tourmaline?)matrix. Several traces malachite present. 31.10-31.35: Highly brecciated, but with chlorite matrix. Quartzite fragments typically less than 7 mm,with yellow rusty stain, contains several traces malachite.		30.05 30.50	30.50 31.35	40242 40243
31.35	32.20	Ground Core					
32.20	33.50	Quartzite breccia	As above, core somewhat softer, in part only Chips recovered 32.20-32.55: Black(tourmaline?)matrix with several traces malachite. 32.55-33.50: Soft cream colored matrix, some sections slightly rusty.		32.20	33.50	40244
33.50	35.10	Biotite chlorite schist breccia	Schist fragments in rusty chloritic matrix. 34.13-34.14: Quartz stringer at 42° to C.A. Rusty. 34.14-35.10: Very rusty, some quartz fragments present. 34.80-35.10: Dark brown? tourmaline-rich matrix.		33.50 34.50	34.50 35.10	40245 40246

From	To	Rock Name	Description	CA	From	To	Sample No.
35.10	35.60	Quartzite breccia	Quartzite fragments up to 1 cm in chlorite rich matrix. A few rusty patches.		35.10	35.60	40247
35.60	36.20	Quartzite	Light grey, vaguely foliated at 70° to C.A. fractured. Fractures open and vuggy or slightly rusty.	70°	35.60	36.10	40248
36.20	38.10	Ground Core					
38.10	39.20	Biotite chlorite schist	Green-grey core, highly broken up, mostly chips recovered. Estimate 50% recovery. Occasional quartz chips probably indicate stringers present. 38.40-38.65: Dark blue-green chloritic breccia with small quartz clasts, some ?rust spotting. Minor visible cassiterite at 38.60. 38.80 : 3 cm quartz bl ck. Contacts too broken to measure.		38.10	39.20	40249
39.20	39.60	Ground Core					
39.60	40.96	Biotite chlorite schist	As above, recovery consists of chips and small core pieces, soft, rusty. Core pieces appear vuggy. 39.60-40.00: Fairly well cored, rusty, vuggy. Occasional quartz patches present. 40.42-40.45: Rusty, vuggy seam. Vugs lined with FeMn? stain.		39.60 40.60	40.60 40.96	40250 40251
40.96	43.95	Quartzite	Light grey, fine grained, hard, contains numerous chloritic partings at 55° to C.A. Several rusty fractures at 20 and 50° to C.A.	55°	40.96 42.00 43.00	42.00 43.00 43.95	40252 40253 40254

From	To	Rock Name	Description	CA	From	To	Sample No.
			Occasional narrow schist band up to 2 cm. 41.48-41.56: Rusty zone, yellow-brown color. 42.43-42.53: Narrow schist band, foliated at 65° to C.A. 42.53-42.57: Quartz stringer at 60° to C.A. 42.62-42.65: Quartz stringer at 60° to C.A. 42.67-42.69: Quartz stringer at 70° to C.A. 42.70-42.77: Quartz stringer at 60° to C.A. 42.84-43.30: Estimate 70% quartz as stringers at 60-70° to C.A. All are highly fractured at 10° to C.A. Fractures are typically rusty. Estimate 5-8% chlorite in section 43.30-43.50: Vuggy, more rusty than above.				
43.95	44.20	Ground Core					
44.20	45.73	Quartzite	As above. 44.35-44.90: Several fractures at 5,20 and 60° to C.A. filled with soft black(FeMn?) stained material. A few narrow quartz carbonate stringers present 10° to C.A. 45.27-45.77: Estimate 50% quartz as stringers at 65-70° to C.A. Stringers are fractured at 20 and 40° to C.A.		44.20 45.20	45.20 45.73	40408 40409

From	To	Rock Name	Description	CA	From	To	Sample No.
45.73	46.30	Quartz chlorite breccia?	Estimate 40% quartz as patches surrounded by chloritic matrix. Contains a few fractures at 10 and 40° to C.A. filled with quartz carbonate; probably zone of quartz chlorite invasion of quartzite host.		45.73	46.30	40410
					46.30	47.00	40411
46.30	48.00	Quartzite	Light grey, fine grained, hard, massive. 47.50 : traces malachite 47.75-47.80: Narrow biotite chlorite seam, soft, mud-like.		47.00	48.00	40412
48.00	48.50	Biotite chlorite schist	Medium grey, foliated at 75° to C.A. 48.00-48.23: Very soft core, highly broken up	75°	48.00	48.50	40255
48.50	49.73	Quartzite	Similar to above, contains numerous chloritic partings at 50-55° to C.A. Generally fairly massive.		48.50	49.00	40256
					49.00	49.73	40413
49.73	50.53	Biotite chlorite schist	Medium grey, well foliated at 60-70° to C.A. 49.73 : Quartz stringer at 65° to C.A. 49.91-49.93: Quartz stringer at 60° to C.A. 49.96 : 2 cm quartz patch.	60-70°			
50.53	51.40	Quartzite	Light grey, fine grained, core highly broken up. A few vuggy, rusty sections. Occasional quartz stringers as evidenced by quartz pieces in broken core.				
51.40	51.55	Biotite chlorite schist, contains minor quartzite	Dark grey to black, with several lighter colored quartzite bands. Well foliated at 65-75° to C.A. 51.40-51.42: Mud seam, grey clay with schist rock chips.	65-75°			

From	To	Rock Name	Description	CA	From	To	Sample No.
51.55	51.70	Ground Core					
51.70	53.50	Quartzite with schist bands	Light grey, fine grained, hard quartzite with numerous bands biotite chlorite schist. Foliation at 60-70° to C.A. 51.75-51.76: Quartz stringer at 65° to C.A. 51.93-52.20: Five quartz stringers up to 2 cm at 65-70° to C.A. 51.61-51.62: Quartz stringer at 70° to C.A. 53.05-53.12: Rusty quartz stringer at 64° to C.A. cut by 2 mm chlorite seam at 13° to C.A. 53.21-53.23: Quartz stringer at 60° to C.A.	60-70°			
53.50	54.24	Biotite chlorite schist	Medium to dark grey, well foliated at 55° to C.A. 53.61-53.64: Rusty section, soft.	55°			
54.24	56.13	Quartzite	Light grey, fine grained, contains a number of chloritic partings at 65-70° to C.A, fractured. Fractures at 10-15° and 35° to C.A. usually filled with chlorite, often rusty 54.40-54.70: Several rusty vugs, some have black FeMn? stain. 55.85-56.13: Several open fractures coated with rusty material.	65-70°			
56.13	59.25	Biotite chlorite schist	Medium to dark grey, well foliated at 45-65° to C.A. Contains occasional narrow quartzite bands, generally less than 10 cm.	45-65°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			Occasional quartz stringers parallel to foliation, generally 2-3mm 56.59-56.63: Several quartz patches. 56.72-56.87: Quartzite band. 57.24-57.55: Soft, highly broken up. 58.10-58.11: Quartz stringer at 77° to C.A. 58.13 : 5mm quartz stringer at 83° to C.A. 58.23-58.27: Quartz stringer at 30° to C.A. 59.00-59.01: Quartz stringer at 70° to C.A. 59.12-59.22: Quartz stringer at 75° to C.A.				
59.25	60.04	Quartzite	Light grey, fine grained, hard, massive. Contains a number of micaceous partings at 65° to C.A. 59.53-59.54: Quartz stringer at 52° to C.A. 59.59-59.62: Irregular quartz patch.	65°			
60.04	62.25	Quartz rich biotite chlorite schist	Light grey, well foliated at 65-70° to C.A. Essentially quartzite with abundant mica and schistose character.	65-70°			
62.25	64.50	Biotite chlorite schist	Dark grey to green, normal schist, finely foliated at 55-70° to C.A. 62.25-62.83: Several traces disseminated pyrite, occasional traces sphalerite. 62.40-62.46: Quartz stringer at 70° to C.A., contains numerous traces pyrite, rare traces	55-70°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			sphalerite. 63.31 : 4 mm quartz stringer at 80° to C.A. 63.80-63.82: Quartz stringer at 70° to C.A. 63.90-63.30: Irregular quartz patch in chlorite rich sections.				
64.50	64.82	Quartzite	Light grey, hard, fairly massive, fracture at 5° to C.A. Fractures filled with chlorite.				
64.72	64.93	Biotite chlorite schist	Similar to above, well foliated at 68° to C.A. Contains a few 2-4 mm quartz stringers parallel to foliation.	68°			
64.93	68.93	Quartzite	Light grey, hard. Appears shattered and infilled with chlorite. Estimate 10-15% chlorite present. Contains several traces malachite, occasional fractures at 5-10° to C.A., coated with black FeMn stain. 65.25-65.50: Brecciated, quartzite fragments in chloritic matrix. 66.15-66.22: Narrow biotite chlorite schist band, foliation 65° to C.A. 66.74-66.77: Narrow schist band at 65° to C.A. 67.14-67.15: Narrow schist band at 65° to C.A.				
68.93	70.16	Biotite chlorite schist	As above, well foliated at 70° to C.A.	70°			
70.16	72.50	Crystal tuff	Extremely hard, contains quartz crystals up to 2 mm in fine grained, light grey,	70°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			groundmass. Vaguely laminated at 70° to C.A. Contains occasional quartz or quartz carbonate stringers at 5° to C.A. 70.72-70.74: Narrow schist band at 65° to C.A. 71.47-71.52: Narrow schist band at 60° to C.A. 71.80-71.92: Narrow schist band at 60° to C.A.				
	72.50	END OF HOLE					

CAMPBELL RESOURCES INC.
DIAMOND DRILL LOG

VENTURE CORTIN

PROJECT

PROPERTY E.P.D.

LOCATION

GRID

Location 99+75.3N
Section 102+98.3W
Bearing 350°
Dip -70°
Length 151.5m

TESTS

TROPARI

Depth	Mag Brg	Corr Brg	Dip
30.48			
60.96			
91.44			
121.92			
151.5			

ACID

Dip[2]
65°
63°
61°
61°
60°

SURVEY

Latitude
Departure
Elevation
Bearing
Dip

PHYSICAL DATA

Core Size NQ to 151.5m , to
Date Started August 26, 1980
Date Completed August 30, 1980
Casing Pulled Yes
Core Recovery 97.1%
Cemented No
Core Location: In storage at Oliver Creek camp site 115-P-15

Logged by D.R. Kennedy
Contractor Arctic Diamond Drilling

NOTES: 1) Give reference - Magnetic, Grid, True
2) Corrected dip.

DDH No. 80-10

From	To	Rock Name	Description	CA	From	To	Sample No.
0.0	7.9	Casing	Through overburden, several boulders encountered, mostly quartzite and biotite chlorite schist, a few quartz pieces recovered.				
7.9	10.50	Biotite chlorite schist	Dark to medium grey, well foliated at 65-70° to C.A. contains occasional rusty fractures at 10-15° to C.A.	65-70°			
			7.96 : 5 mm quartz stringer at 75° to C.A.				
			8.51 : 7 mm quartz stringer folded in Z shape.				
			8.60-8.63: Quartz patch, fractured 5-10° to C.A.				
			9.06-9.07: Quartz stringer at 70° to C.A.				
			9.09-9.15: Quartz patch, some chlorite present.				
			9.27-9.37: Quartz stringer at 72° to C.A.				
			8.86-8.89: Quartz stringer at 55° to C.A., contains 15% chlorite.				
			10.20-10.40: Estimate 60% quartz as stringers and patches in chloritic section.		10.16	11.00	40414
10.50	13.50	Quartzite	Dark grey, fine grained, massive. Fractured at 5° and 25° to C.A. Fractures coated with black FeMn stain.		11.00	12.00	40257
					12.00	12.80	40415
			12.70-13.30: Yellow brown rusty section. Contains several vuggy fractures.		12.80	13.26	40416
			13.40 : 6 mm mud seam at 12° to C.A.				
13.50	18.50	Biotite chlorite schist	Light to medium grey, fine grained, some sections light grey, fairly quartz rich, others soft and highly chloritic.				

From	To	Rock Name	Description	CA	From	To	Sample No.
			13.50- 14.60: Estimate 10% quartz as irregular stringers at random angles to C.A. Several fractures at 10-15° to C.A. coated with black FeMn stain.		13.26	14.50	40417
			15.21- 15.46: Estimated 80% quartz, fractured at 45° and at 70° to C.A.		15.15	15.45	40418
			15.40 : Rusty, vuggy fracture at 45° to C.A.		15.45	16.50	40419
			16.07- 16 12: Quartz stringer at 62° to C.A., contains 10% chlorite.		16.50	17.50	40420
			16.31- 16.32: Quartz stringer, contacts obscured in broken core.		17.50	18.50	40421
			16.48- 16.51: Quartz stringer at 60° to C.A., contains 10% chlorite.				
			18.00- 18.02: Soft mud seam, light grey clay at 68° to C.A.				
			18.10- 18.50: Core chips only recovered.				
18.50	18.60	Ground Core					
18.60	23.81	Interbanded Quartzite & Schist	Generally light grey, well foliated at 70°- 75° to C.A. Contains occasional fractures at 10-15° to C.A. Occasional quartz stringers, generally 1-2 mm parallel to foliation.	70-75°			
			18.90- 19.00: Hard quartzite band, fractured at 10° to C.A. Fractures filled with chlorite.				
			20.50- 20.54: Mud seam, light grey clay in dark biotite-rich				

From	To	Rock Name	Description	CA	From	To	Sample No.
			band.				
			20.74 : 4 mm quartz stringer at 72° to C.A.				
			21.90- 22.00: Several quartz pieces in highly broken up core.				
			22.64- 22.90: Section grades to quartzite, hard, fairly massive.				
			23.20- 23.32: Vuggy section, fractured at 15-20° to C.A. Fractures filled with soft white clay.				
			23.42- 23.81: Soft black, highly micaceous section. Foliation at 59° to C.A.				
23.81	31.03	Quartzite Breccia	Quartzite fragments typically 0.5 to 1 cm in dark green fine-grained matrix(chloritic?)		23.81	24.50	40258
			24.34 : 2 mm mud seam at 20° to C.A.		24.50	25.50	40259
			24.52- 24.67: Chloritic section, contains estimated 55% quartz as patches and narrow stringers.		25.50	26.50	40260
					26.50	27.50	40261
					27.50	28.50	40262
					28.50	29.50	40263
					29.50	30.50	40264
					30.50	31.03	40265
			24.60 : 3 mm fractures at 15° to C.A., filled with quartz crystals, some vugs show crystal growth.				
			24.93- 25.00: Chlorite band, no quartzite fragments. Contacts about 67° to C.A.				
			25.20- 26.52: Rusty section, yellow-brown color.				
			26.56- 26.59: Chlorite band.				
			26.59- 27.09: Section consists mostly of quartzite with only minor chlorite.				

From	To	Rock Name	Description	CA	From	To	Sample No.
			Perhaps best described as shattered. 27.09- 27.70: Section with abundant chlorite, estimate 40% quartzite fragments, 60% chloritic matrix. Slightly rusty. 28.00- 28.75: Several fractures nearly parallel to C.A., coated with black FeMn stain, a few quartzite fragments up to 1 cm. 29.18- 29.30: Chlorite rich section. Very few fragments quartzite. 29.30- 29.37: Pink stain in quartzite. 29.37- 29.45: Chloritic band, dark green, soft, some rusty fractures. 29.45- 30.70: Heavily rusted, oxidized, vuggy. 29.85- 29.90: Chloritic band at 73° to C.A.				
31.03	31.20	Ground Core					
31.20	32.15	Chlorite Biotite Schist	Dark green grey, well foliated at 75° to C.A. Contains occasional rusty fractures at 45-55° to C.A. 31.70- 31.79: Soft, rusty sand and soft, rusty core chips recovered. 31.79- 32.05: Extremely rusty, soft, highly chloritic, occasional vugs present.	75°	31.20	32.15	40266
32.15	33.00	Quartzite	Medium grey, extremely fine grained, appears shattered. Contains numerous fractures at		32.15	33.00	40267

From	To	Rock Name	Description	CA	From	To	Sample No.
			10^{o} and 60^{o} to C.A.				
33.00	35.06	Biotite Chlorite Schist	Medium grey quartz rich schist, well foliated at 80-85° to C.A. 33.91- 33.98: Estimate 65% quartz as patches and narrow stringers at 75^{o} to C.A. 34.85- 35.02: Several irregular quartz patches.	80-85°	33.00 34.00	34.00 35.06	40268 40269
35.06	35.59	Quartzite	Similar to above section, shattered appearance.		35.06	35.59	40270
35.59	36.90	Biotite Chlorite Schist Breccia	Fragments of biotite chlorite schist in chloritic fine-grained matrix, dark grey-green with some rusty sections. Occasional fractures at 5^{o} and at 40^{o} to C.A. 35.76- 35.98: Very rusty seam at 25^{o} to C.A. 36.23- 36.24: Quartz stringer at 30^{o} to C.A. 36.28- 36.29: Quartz stringer at 50^{o} to C.A. 36.38- 36.39: Quartz stringer at 60^{o} to C.A. 36.81- 36.90: Soft grey clay, containing biotite chlorite schist fragments.		35.59 36.59	36.59 36.90	40271 40272
36.90	37.20	Ground Core					
37.20	37.90	Biotite Chlorite Schist Breccia	As before.		37.20	37.90	40273

From	To	Rock Name	Description	CA	From	To	Sample No.
			37.38- 37.41: Quartz stringer with irregular contacts, generally at 50° to C.A. Vuggy, slightly rusty.				
37.90	38.68	Ground Core	37.45- 37.90: Very soft, mostly core chips recovered.				
38.68	40.40	Biotite Chlorite Schist, mottled appearance	Distinctive section, soft, has mottled appearance due to presence of cream to pale green colored carbonate flakes. Foliation not well developed, generally at 65°-70° to C.A. Fractures filled with quartz carbonate. 39.50 : 1 cm pyrite bleb.	65-70°	38.68 39.68	39.68 40.15	40274 40275
40.40	41.22	Biotite Chlorite Schist	Dark grey to black, finely foliated at 75° - 80° to C.A. Contains several traces disseminated sphalerite, Fractured at 40-45° to C.A. Fractures filled with quartz carbonate. Occasional traces sphalerite in stringers. 40.44- 40.90: A number of quartz carbonate stringers up to 1 cm at 15° to C.A. Core highly fractured, fractures filled with grey clay.	75-80°	40.15	41.22	40276
41.22	41.72	Quartzite Breccia	Quartzite fragments in fine grained matrix as before.		41.22	41.72	40277
41.72	43.30	Biotite Chlorite Schist Breccia	Similar to above section; rusty, generally pale yellow-brown. 41.90- 42.40: Extremely rusty, some quartzite fragments present.		41.72 42.72	42.72 43.30	40278 40279

From	To	Rock Name	Description	CA	From	To	Sample No.
			42.68- 43.30: Soft black clay, with biotite chlorite schist particles recovered.				
43.30	44.00	Quartzite	Fine grained, hard, highly fractured(shattered), Fractures filled with black(tourmaline rich?) material, contains traces malachite.		43.30	44.00	40280
44.00	44.15	Biotite Chlorite Schist?	Only black clay and a few pieces recovered.		44.00	44.15	40281
44.15	44.80	Ground Core					
44.80	45.64	Biotite Chlorite Schist?	Very soft, black clay with small chips biotite chlorite schist recovered.		44.80	45.64	40282
45.64	46.11	Chlorite Schist	Very soft, light grey-green color, vague foliation at 45°-50° to C.A. Contains a number of 1-3 mm quartz carbonate stringers at 25-65° to C.A.	45-50°	45.64	46.11	40283
46.11	46.50	Biotite Chlorite Schist	Soft, some short sections have mottled appearance due to presence of carbonate flakes. Foliated at 35°-45° to C.A.	35-45°	46.11	46.50	40284
					46.90	47.90	40285
					47.90	48.90	40286
46.50	46.90	Ground Core					
46.90	50.20	Biotite Chlorite Schist	As above. 46.20- 46.46: Extremely soft grey clay with 1-2 mm chips biotite chlorite schist. 48.08-48.70 : Only chips recovered. 48.84- 48.93: Fractures at 40° and 85° to C.A. Filled with black tourmaline?		48.90	49.90	40287
					49.90	50.20	40288

From	To	Rock Name	Description	CA	From	To	Sample No.
			49.14- 49.70: Rusty section, yellow-brown. 41.22 : 1 cm grusty, mud seam at 15° to C.A. 49.45- 49.70: Rusty, vuggy section. 49.70- 50.20: Mud and 1-2mm core chips recovered.				
50.20	50.35	Ground Core					
50.35	52.80	Biotite Chlorite Schist Breccia	As above, mostly schist fragments in fine chloritic matrix, occasional quartzite fragments, somewhat rusty. Occasional vugs. Section very soft.		50.35 51.35	51.35 52.80	40289 40290
52.80	53.55	Quartzite Breccia	85-90% quartzite fragments up to 1 cm in fine-grained chloritic matrix, occasional fracture coated with black FeMn stain.		52.80	53.55	40291
53.55	53.90	Ground Core					
53.90	54.70	Biotite Chlorite Schist Breccia	As above, soft dark grey-green. Generally quite soft, contains a few narrow quartzite breccia bands. 54.20- 54.28: Quartzite breccia band, contacts obscured in broken core. 54.40- 54.60: Soft rusty section, contains several rusty fractures at 35° to C.A.		53.90	54.70	40292
54.70	56.00	Quartzite Breccia	As above, 55.50- 56.00: Section appears more shattered than brecciated.		54.70	56.00	40293

From	To	Rock Name	Description	CA	From	To	Sample No.
56.00	56.60	Biotite Chlorite Schist Breccia	Soft, mostly mud and schist chips recovered. 56.08- 56.22: Extremely rusty, contains 50% quartz as matrix material. 56.30- 56.60: Extremely soft mud and rock chips recovered.		56.00	56.60	40294
56.60	56.80	Ground Core					
56.80	60.66	Quartzite	Hard, fine grained, fairly massive. Contains numerous chloritic partings at 45-50° to C.A. 57.39- 57.53: Quartz stringer at 68° to C.A., contains 10-15% chlorite. 57.70 : 5 cm quartz patch. 57.74- 57.83: Quartz stringer at 40° to C.A., contains 5% chlorite. 58.20- 58.57: Several 1 mm vuggy fractures at 45° to C.A. 59.30- 59.50: Minor visible cassiterite in this chloritic fracture at 15° & 40° to C.A. 59.30- 59.70: Narrow biotite chlorite schist band at 63° to C.A. 60.20- 60.66: Several chlorite filled fractures at 5-10° to C.A.	45-50°	56.80 57.80 58.80 59.80	57.80 58.80 59.80 60.66	40295 40296 40297 40298
60.66	61.97	Biotite Chlorite Schist	Dark grey, fine grained, well foliated at 60-65° to C.A. Contains a number of quartz stringers and patches up to 1 cm. Stringers generally parallel to foliation. Stringers have tendency to pinch and swell, rarely have	60-65°	60.66 61.66	61.66 61.97	40299 40300

From	To	Rock Name	Description	CA	From	To	Sample No.
			parallel contacts. 61.82- 61.86: Quartz stringer at 83° to C.A., contains 10% chlorite.				
61.97	62.35	Quartzite	As above. 61.97- 62.05: Several quartz patches cut by 3 mm chlorite seam at 30° to C.A. 62.28- 62.30: Biotite chlorite band at 78° to C.A.		61.97	62.35	40301
62.35	63.22	Biotite Chlorite Schist	Medium grey color, contains less mica, more quartz than previous section. Contains a number of quartz stringers and patches, stringers generally less than 1 cm and parallel to foliation at 50 -60° to C.A. 62.36- 62.38: Quartz stringer at 65° to C.A. 62.53- 62.60: Quartz stringer at 65° to C.A., contains 5-10% chlorite. 62.53- 62.65: Minor visible cassiterite in thin chloritic fractures in quartzite. ?No cassiterite in chlorite in quartz-stringer? 62.73- 62.80: Quartzite band at 50° to C.A. 62.87- 62.91: Quartz stringer at 68° to C.A., contains 5% chlorite. 62.95- 62.98: Quartz patch, contains 5% chlorite.	50-60°	62.35	63.22	40302

From	To	Rock Name	Description	CA	From	To	Sample No.
63.22	68.22	Quartzite	Similar to above section, contains occasional narrow schist bands, occasional rusty fracture at 10° and 65° to C.A. Occasional 1-3 mm quartz filled fractures. 63.38-63.41: Quartz stringer at 65° to C.A., contains 5% chlorite, rare traces malachite. 65.72-65.74: Irregular quartz stringer folded in "M" shape, slightly rusty.		63.22 64.22 65.22 66.22	64.22 65.22 66.22 67.22	40303 40304 40305 40306
68.22	68.39	Biotite Chlorite Schist	Similar to above sections, well foliated at 65°-70° to C.A.	65-70°			
68.39	69.15	Quartzite	As above, vaguely foliated at 65° to C.A. 68.81-68.91: Estimate 60% quartz as stringers at 40° and 70° to C.A.	65°			
69.15	69.40	Biotite Chlorite Schist	As above, foliation at 72° to C.A.	72°			
69.40	70.40	Quartzite	Similar to above section, but somewhat more fractured. Fractures generally at 20-35° to C.A., filled with cream to rust colored clay. 69.89-69.90: Quartz stringer at 70° to C.A., contains 5% chlorite. 70.17-70.20: Quartz stringer at 80° to C.A., somewhat irregular contacts. 70.28-70.40: Estimate 60% quartz as stringers, generally at 60° to C.A.				

From	To	Rock Name	Description	CA	From	To	Sample No.
70.40	75.80	Biotite Chlorite Schist	Dark grey to black, well foliated at 60-80° to C.A., contains a number of quartz stringers and a few patches, stringers generally parallel to foliation, generally 1-5 mm.				
			71.40-71.85: Estimate 25% quartz as stringers and patches. Stringers generally 65° to C.A.				
			71.70 : Few traces disseminated sphalerite.				
			71.98-72.00: Quartz stringer at 50° to C.A., contains 1-2% chlorite, few blebs pyrite.				
			72.18 : Hairline fracture at 66° to C.A. filled with sphalerite.				
			72.43-72.45: Quartz stringer at 60° to C.A.				
			72.91-72.92: Soft mud seam at 75° to C.A.				
			73.17-73.19: Quartz stringer at 68° to C.A.				
			73.28-73.34: Quartz stringer, upper contact 60° to C.A., lower contact 80° to C.A. Fractured, fractures filled with white clay.		73.26	74.26	40307
			73.56-73.58: Quartz patch.		74.26	74.45	40308
			74.00-74.04: Quartz stringer at 65° to C.A.		74.45	75.45	40309
			74.13-74.15: Quartz stringer at 68° to C.A.		75.45	75.80	40310
			74.17-74.26: Estimate 70% quartz as				

From	To	Rock Name	Description	CA	From	To	Sample No.
			irregular patches.				
			74.26-74.45: Chloritic section, contains several traces disseminated sphalerite, rare traces pyrite. Visible cassiterite in very dark, altered schist. (Foliation obscured- strong chlorite + muscovite alteration). Probable association with quartz stringer. Thin chlorite-quartz-carbonate-filled fractures are obviously later or x-cut altered rock.				
			74.82-74.88: Quartz stringer at 70° to C.A., fractured at 15 and 65° to C.A.				
			75.40-75.53: Quartz stringer at 73° to C.A., contains 5-10% chlorite.				
			75.43-75.50: Narrow band of pale pink cassiterite at edge of quartz stringer and in hairline fracture in the stringer. Probably some fine grained brown tourmaline also.				
			NB. Apparently no visible cassiterite in rocks between 75.50-75.75 (and no intervening quartz stringer either).				
			75.75 : A second smaller band with pale cassiterite and brown				

From	To	Rock Name	Description	CA	From	To	Sample No.
			tourmaline associated with thin quartz stringer.				
75.80	76.62	Quartzite	Medium grey, fine grained, massive, vaguely foliated at 65° to C.A., contains rare traces disseminated sphalerite and pyrite. 76.37-76.38: Quartz stringer at 75° to C.A. 76.60 : 5 mm quartz stringer at 70° to C.A.	65°	75.80	76.62	40311
76.62	77.34	Biotite Chlorite Schist	Similar to above, well foliated at 65-70° to C.A.	65-70°	76.62	77.34	40312
77.34	78.66	Quartzite	Light grey, fine grained, highly fractured at 5-10° and at 70° to C.A. Most fractures filled with chlorite or black FeMn stain, a few filled with creamy colored clay, These often have traces malachite.		77.34 78.34	78.34 78.66	40313 40314
78.66	79.11	Biotite Chlorite Schist	As above, foliation at 65-70° to C.A. 78.84-78.96: Estimate 70% quartz as stringers up to 5 mm, generally parallel to foliation. 79.00 : Traces disseminated sphalerite.	65-70°	78.66	79.11	40315
79.11	90.72	Quartzite	Light grey, fine grained, contains numerous chloritic partings, generally at 65-70° to C.A. Contains a number of hairline fractures filled with quartz carbonate, generally at 15 and 60° to C.A. 82.12-82.20: Quartz patch, contains chlorite rich section with black FeMn stain	65-70°	79.11 80.00 81.00 82.00 83.00	80.00 81.00 82.00 83.00 84.00	40316 40317 40318 40319 40320

From	To	Rock Name	Description	CA	From	To	Sample No.
			and traces malachite. 82.28-82.38: Quartz stringer at 55-60° to C.A. 82.40-82.70: Several fractures at 10° to C.A., several traces malachite. 83.60-84.70: Several mud and carbonate filled fractures at 20° to C.A. 84.70-84.73: Quartz stringer at 45° to C.A. 85.28-85.29: Quartz carbonate stringer at 20° to C.A. 86.10 : 5 mm quartz carbonate stringer at 20° to C.A., contains odd traces malachite. 87.40 : 5 mm quartz carbonate stringer at 30° to C.A. 87.56 : Hairline fracture at 37° to C.A.,contains sphalerite. 88.30-88.33: Quartz stringer at 70° to C.A. 88.34-88.35: Quartz stringer at 60° to C.A. 89.95 : 1 mm quartz carbonate stringer at 15° to C.A.		84.00 85.00 86.00 87.00	85.00 86.00 87.00 88.00	40321 40322 40323 40324
90.72	91.75	Biotite Chlorite Schist	As above, foliated at 60-70° to C.A. 90.81-90.83: Quartz stringer at 57° to C.A. 90.89-90.95: Quartz stringer at 55° to C.A. 91.03-91.06: Quartz patch, fractured. Fractures filled with quartz carbonate.	60-70°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			91.18-91.31: Quartz stringer at 72° to C.A., contains 5% chlorite.				
91.75	92.95	Quartzite	As above, vaguely foliated at 70-75° to C.A. 92.27-92.40: Fracture nearly parallel to C.A., contains traces malachite. 92.40 : 5 mm quartz stringer at 55° to C.A. 92.42-92.43: Quartz stringer at 55° to C.A. 92.87-92.91: Quartz stringer at 67° to C.A.	70-75°			
92.95	94.26	Crystal Tuff	Medium to dark grey, extremely hard, vaguely foliated at 60° to C.A., contains occasional hairline fractures at 10-20° to C.A.filled with quartz carbonate.	60°			
94.26	97.22	Biotite Chlorite Schist	Similar to previous sections. Foliated at 70° to C.A., contains some quartzite bands. Core highly broken up. 95.06-95.10: Quartz stringer at 70° to C.A. 95.68 : 5 mm quartz carbonate stringer at 40° to C.A. Numerous traces malachite. One bleb pyrite noted. 95.84 : 3 mm quartz carbonate stringer at 15° to C.A., contains considerable malachite. 95.92-95.97: Quartzite band at 65° to C.A. 96.30-96.31: Quartz stringer at 75° to C.A.	70°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			96.94-96.95: Quartz stringer at 60° to C.A. 96.98 : 3 cm quartz patch. 97.18-97.20: Quartz stringer at 75° to C.A.				
97.22	97.70	Quartzite	Light grey, fine to medium grained, hard, massive, vaguely foliated at 65° to C.A.	65°			
97.70	98.62	Biotite Chlorite Schist	As above. Well foliated at 55-65° to C.A. 97.72-97.78: Quartz stringer at 55° to C.A., contains occasional chlorite patches. 98.35 : 5 cm quartz stringer at 65° to C.A. 98.52-98.62: Soft clay with schist chips recovered.	55-65°			
98.62	98.80	Ground Core					
98.80	99.47	Biotite Chlorite Schist	As above, foliation at 55° to C.A. 98.87-98.88: Quartz stringer at 60° to C.A. 99.01-99.10: Half the core is a mud seam nearly parallel to C.A., remainder consists of a quartz stringer at 80° to C.A. 99.45-99.47: Quartz stringer at 60° to C.A.	55°			
99.47	100.10	Quartzite	Medium grey, fine grained, massive. 100.02-100.05: Irregular quartz patch.				
100.10	102.66	Biotite Chlorite Schist	Similar to above, but less micaceous, somewhat more quartz present.	65-75°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			Well foliated at 65° to 75° to C.A. 100.17-100.18: Quartz stringer at 70° to C.A. 100.20 : 2 cm quartz patch. 100.32-100.44: Quartz stringer at 70° to C.A., contains estimated 3% pyrrhotite 100.61-100.63: Quartz stringer at 55° to C.A. 100.98-101.00: Quartz stringer at 65° to C.A. 101.06-101.08: Quartz stringer at 70° to C.A. 101.25-101.26: Quartz stringer at 60° to C.A. 101.67-101.73: Quartz stringer at 80° to C.A. 101.90-102.66: Core highly broken up, extremely soft, contains abundant quartz carbonate as narrow stringers at random angles to C.A.				
102.66	103.24	Quartzite	Light grey, fine grained, vaguely foliated at 70° to C.A. Contains numerous hairline fractures at 30° to C.A., generally filled with quartz carbonate.	70°			
103.24	103.34	Biotite Chlorite Schist	Similar to above section. 103.24-103.34: Only core chips recovered and soft grey clay.				
103.34	103.50	Ground Core					

From	To	Rock Name	Description	CA	From	To	Sample No.
103.50	111.30	Biotite Chlorite Schist	As above, well foliated at 75° to C.A. 103.50-103.56: Quartz stringer at 60° to C.A. 103.90 : Narrow rusty stringer at 40° to C.A. 104.37-104.41: Quartz stringer at 50° to C.A. 105.03-105.08: Quartz stringer at 85° to C.A. 105.15-105.22: Quartz carbonate patch. 105.26-105.27: Quartz carbonate stringer at 20° to C.A. 105.86-105.90: Quartz stringer at 75° to C.A. 106.19-106.20: Quartz stringer at 50° to C.A. 106.39-106.41: Quartz stringer at 70° to C.A. Contains traces pyrrhotite. 107.41-107.46: Quartz stringer at 72° to C.A., contains 3-5% chlorite. 107.90-108.80: Foliation very distorted, circular patterns reminiscent of stromatolite growth. Probably fold hinges. 107.96-108.10: Circular quartz patch with schist center. 108.07-108.13: Quartz patch, contains 10% chlorite, traces pyrrhotite and chalcopyrite. 108.29-108.31: Quartz patch, contains 3-5% chlorite. 108.35-108.37: Quartz stringer at 63° to C.A.	75°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			108.51 : 5 mm quartz stringer at 75° to C.A. 108.60-108.62: Quartz patch. 108.67-108.72: Quartz patch, contains 2% chlorite. 108.97-109.00: Quartz stringer at 70° to C.A. 109.21-109.22: Quartz patch. 109.30-109.65: Estimate 40% quartz as irregular patches. 109.83-109.84: Quartz stringer at 65° to C.A. 109.94-109.95: Quartz stringer at 85° to C.A. 109.99-110.00: Quartz stringer at 65° to C.A. 110.00-110.22: A number of irregular quartz patches, estimate 20% quartz. 110.58-110.66: Irregular quartz patch.				
111.30	111.70	Quartzite	Light grey, fine grained, fairly massive, vaguely foliated at 75° to C.A.	75°			
111.70	116.02	Biotite Chlorite Schist	As above, contains a few narrow quartzite bands. 111.70-111.74: Quartz patch, contains several traces pyrrhotite. 111.76-111.78: Quartz stringer at 75° to C.A. 113.00-113.03: Quartz stringer at 70° to C.A. 114.15-114.17: Quartz stringer at 60° to C.A. 114.33-114.37: Quartz stringer at 50° to C.A.				

From	To	Rock Name	Description	CA	From	To	Sample No.
			114.57-114.70: Grey clay with abundant schist chips recovered. 115.10-115.30: Quartz patch. 115.83-115.85: Quartz patch. 115.95-115.98: Quartz patch.				
116.02	117.35	Quartzite	Light grey, fine grained, massive. 116.22-116.30: Altered section, does not go through core entirely, but is a patch, dark brown, slightly mottled appearance. 116.60-117.70: Biotite chlorite schist band at 68° to C.A. 116.90-116.92: Quartz stringer at 65° to C.A. 117.17-117.19: Quartz patch.				
117.35	119.20	Biotite Chlorite Schist	As above, well foliated at 70° to C.A. 117.83-117.86: Quartz stringer at 75° to C.A. 118.24-118.25: Quartz patch. 118.30-118.40: Rusty fractures at 5° and 35° to C.A.	70°			
119.20	120.06	Quartzite	Light grey, fine grained, vaguely foliated at 60° to C.A., contains several 1-5 mm quartz stringers at 68° to C.A. Contains a few hairline fractures filled with quartz carbonate 120.05-120.06: Quartz stringer at 53° to C.A.	60°			
120.06	120.45	Biotite Chlorite Schist	As above, well foliated at 75° to C.A. 120.38-120.45: Estimate 20% quartz as patches.	75°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			Occasional stringers parallel to foliation.				
120.45	121.40	Quartzite	Similar to above section. 120.70-121.00: Core highly broken up, numerous rusty fractures. 121.00-121.40: Numerous fractures filled with quartz carbonate and occasional black FeMn stain. Most fractures at 10°-15° to C.A.				
121.40	122.65	Biotite Chlorite Schist	As above, well foliated at 70-75° to C.A. 121.70 : Hairline fracture at 25° to C.A. filled with pyrite. 121.25-121.26: Quartz stringer at 70° to C.A.				
122.65	123.83	Quartzite	Dark grey, fine grained, fairly massive. Vaguely foliated at 65° to C.A., contains occasional traces disseminated pyrite. 122.65-123.00: Contains a few narrow biotite-chlorite schist bands, generally less than 1 cm.	65°			
123.83	125.32	Biotite Chlorite Schist	Similar to above section. Quartz stringers parallel to foliation at 55-65° to C.A. 124.21-124.23: Rusty altered patch. 124.35-124.40: Quartz stringer at 35° to C.A., rusty. 124.83-124.94: Estimated 30% quartz as patches, quartz contains estimated 3-4% pyrrhotite. 125.12-125.14: Quartz patch. 125.27-125.28: Quartz stringer at 64° to C.A.	55-65°			

From	To	Rock Name	Description	CA	From	To	Sample No.
125.32	127.50	Quartzite	Hard, fine grained, contains numerous micaceous partings at 50-65° to C.A., several 1 mm fractures at 15 and 40° to C.A. filled with quartz carbonate.	50-65°			
127.50	128.67	Biotite Chlorite Schist	Similar to above section. 128.00-128.15: Estimate 20% quartz as stringers and patches. 128.26-128.27: Mud seam at 53° to C.A. 128.27-128.38: Quartz stringer at 53° to C.A.				
128.67	131.55	Quartzite	Light grey, fine grained, fairly massive. Vague foliation at 40° to C.A. 129.50-130.00: Estimate 5% quartz present as irregular patches and stringers. 130.10-130.22: Quartz stringer at 60° to C.A., contains several traces malachite. 130.22-130.50: Rusty section, highly fractured at 35 and 70° to C.A., fractures filled with chlorite. 130.50-131.00: Numerous fractures at 5-10° and 35-45° to C.A. Filled with chlorite and occasionally quartz carbonate. Several traces malachite present.	40°	129.00 130.00 131.00	130.00 131.00 131.55	40325 40326 40327
131.55	131.95	Biotite Chlorite Schist	Core highly broken up, mostly chips recovered. A few traces malachite on carbonate coated fractures.		131.55	131.95	40328
131.95	133.50	Quartzite	As before, contains occasional narrow biotite				

From	To	Rock Name	Description	CA	From	To	Sample No.
			chlorite schist bands at 60° to C.A. Occasional traces malachite. 132.50-132.90: Several fractures at 70° to C.A. 133.10-133.50: Core highly broken up, mostly pieces and chips recovered.		131.95 132.95	132.95 133.50	40329 40330
133.50	133.75	Quartzite Breccia	80% angular quartzite fragments in chlorite matrix.		133.50	133.75	40331
133.75	134.70	Chlorite Biotite Schist Breccia	Dark green, contains 60%?schist chips in chloritic matrix, occasional traces malachite		133.75	134.70	40332
134.70	135.00	Chloritite?	Dark green, fairly hard, silicious fine grained, massive. Turned ends indicate core loss. Contains a few traces pyrite and minor pale visible cassiterite.		134.70	135.00	40333
135.00	135.85	Ground Core					
135.85	143.30	Biotite Chlorite Schist	Dark grey, well foliated at 60-70° to C.A., contains numerous 1 mm to 1 cm quartz and quartz carbonate stringers parallel to foliation. Also contains occasional quartz stringers. 139.80-140.70: Contains numerous andalusite porphyroblasts, giving core a mottled appearance. 141.00-141.75: Several 1-2 mm quartz carbonate stringers at 10°, 35° and 55° to C.A. 142.43-142.92: Estimate 40% quartz as stringers and patches.	60-70°	135.85 136.80	136.80 137.80	40334 40335

From	To	Rock Name	Description	CA	From	To	Sample No.
143.30	144.30	Quartzite	Light grey, hard, fine grained, massive. Vaguely foliated at 70° to C.A.	70°	143.30	144.30	40336
144.30	146.77	Biotite Chlorite Schist	Similar to above section, foliation at 65°-70° to C.A. Estimate 10-12% quartz overall. 144.30-144.39: Slightly rusty quartz stringer at 60° to C.A. 144.50-144.56: Quartz stringer at 77° to C.A. 144.62-144.75: Estimate 45% quartz as irregular patches. 145.22-145.30: Large quartz patch. 145.33-145.36: Quartz patch. 145.65-145.90: Estimate 40% quartz as stringers at 60° to C.A., generally 5 mm-1 cm wide.	65-70°			
146.77	147.90	Quartzite	Light grey, fine grained, massive. Contains a few narrow schist bands. 147.05-147.07: Quartz stringer at 67° to C.A. 147.40-147.44: Quartz stringer at 65° to C.A. 147.50 : 5 mm quartz stringer at 65° to C.A.				
147.90	149.00	Biotite Chlorite Schist	Similar to above sections, contains a few bands quartzite. 147.92-147.94: Quartz stringer at 75° to C.A. 148.09-148.15: Quartz stringer at 70° to C.A. 148.30-149.00: Estimate 25% quartz as patches and stringers up to 4 cm at 75° to C.A.				

From	To	Rock Name	Description	CA	From	To	Sample No.
149.00	151.50	Quartzite	As above, contains a few narrow schist bands as before, vaguely foliated at 65° to C.A.	65°			
151.50		END OF HOLE					

CAMPBELL RESOURCES INC.
DIAMOND DRILL LOG

VENTURE CORTIN

PROJECT

PROPERTY EPD

LOCATION

GRID

Location 99+24.0N

Section 103+39.4W

Bearing 350° true

Dip -45°

Length 114.90 m

TESTS

TROPARI

Depth	Mag Brg	Corr Brg	Dip
30.48			
60.96			
91.44			
114.90			

ACID

Dip
47°
47°
47°
47°

SURVEY

Latitude

Departure

Elevation

Bearing

Dip

PHYSICAL DATA

Core Size NQ to 114.90, to

Date Started September 9, 1980

Date Completed September 14, 1980

Casing Pulled Yes

Core Recovery 92.5%

Cemented No

Core Location: In storage at Oliver Creek camp site 115-P-15

Logged by D.R. Kennedy

Contractor Arctic Diamond Drilling

NOTES: 1) Give reference - Magnetic, Grid, True

2) Corrected dip.

DDH No. 80-11

From	To	Rock Name	Description	CA	From	To	Sample No.
0.0	6.20	Casing	Through overburden.				
6.20	10.90	Quartzite	Light grey, fairly fine grained, contains numerous chloritic partings at 40-50° to C.A. Contains a few narrow biotite chlorite schist bands at 6.70-6.90, contains occasional narrow quartz stringers and patches. Numerous slightly rusty vugs present. 6.43 : 7mm quartz stringer at 48° to C.A. 6.90-8.10: Core highly broken up, mostly pieces recovered, several quartz stringers or patches evident from quartz chips in core. 8.13-8.18: Quartz stringer at 55° to C.A., contains 5%? chlorite. 8.35-8.90: Estimate 25% quartz present as patches and irregular stringers. Section slightly chloritic. 9.60-9.82: Quartz chlorite stringer at 37° to C.A., contains estimated 20% chlorite. 10.43 : 5 mm quartz stringer at 40° to C.A.	40-50°			
10.90	11.82	Biotite chlorite schist	Dark grey, well foliated at 35-50° to C.A. Soft, contains a number of tiny laths (siderite?), rusty cream color.	35-50°			
11.82	13.10	Quartzite	Dark grey, fine grained, contains numerous micaceous partings at 30-40° to C.A. Core highly broken up.	30-40°			
12.80	13.10	Ground Core					

From	To	Rock Name	Description	CA	From	To	Sample No.
13.10	16.00	Quartzite	Dark grey to light grey, fine grained, some sections quite massive, others contain numerous micaceous partings at 45-50° to C.A. 14.40-14.90: Massive section. 15.18-15.20: Narrow schist band at 50° to C.A.	45-50°			
16.00	16.70	Biotite Chlorite Schist	Dark grey, finely foliated at 50-60° to C.A. Similar to above. 16.13-16.15: Mud seam, soft grey mud recovered. Contacts at? 58° to C.A. 16.30-16.52: Several irregular quartz patches, estimated 15% quartz present.	50-60°			
16.70	19.68	Interbanded Quartzite & Biotite-Chlorite Schist	Several short sections quartzite as above which contains biotite-chlorite interbands, typically schist bands, less than 10 cm. Well foliated at 40-60° to C.A. 16.75 : Horseshoe shaped quartz stringer. 17.24-17.25: Quartz stringer at 45° to C.A. 17.43 : 5 mm quartz stringer at 65° to C.A. 17.45-17.47: Quartz stringer at 65° to C.A. 17.80-17.83: Quartz stringer at 50° to C.A. 18.65-18.75: Soft section, chips and grey mud recovered. 18.94-18.95: Quartz stringer at 70° to C.A. 19.18 : Rusty, vuggy seam at 60° to C.A. Dark FeMn stain in vugs.	40-60°	17.68 18.68	18.68 19.68	40345 40346

From	To	Rock Name	Description	CA	From	To	Sample No.
			19.40-19.55: Quartz stringer, contacts lost in broken core, fractured. Fractures at 50° and 65° to C.A., chlorite filled.				
19.68	20.10	Ground Core					
20.10	20.62	Interbanded Quartzite & Biotite-Chlorite Schist	As above. 20.19 : 3 mm quartz stringer at 45° to C.A. 20.22-20.23: Quartz stringer at 60° to C.A. 20.26-20.33: Quartz patch, contains 2-3% chlorite. 20.48 : 6 mm quartz stringer at 70° to C.A.				
20.62	22.75	Quartzite	Light grey, fine grained, quite massive. 6 mm rusty quartz stringer, at 7° to C.A., vuggy, coated with FeMn stain. 21.46 : 5 mm quartz stringer at 63° to C.A. 21.93-21.94: Quartz stringer at 50° to C.A. 22.04-22.05: Quartz stringer at 50° to C.A. 22.35-22.42: Quartz stringer at 40° to C.A., contains 5-7% chlorite.				
22.75	23.20	Ground Core					
23.20	24.67	Quartzite	As above. 23.60 : 3 mm quartz stringer at 60° to C.A. 23.89-23.92: Quartz stringer at 60° to C.A.				

From	To	Rock Name	Description	CA	From	To	Sample No.
			24.05-24.12: Soft grey mud recovered. 24.12-24.46: Several irregular quartz patches, estimate 25% quartz present.				
24.67	24.94	Biotite Chlorite Schist	Dark grey, well foliated at 35-40° to C.A. Similar to above sections.	35-40°			
24.94	25.20	Ground Core					
25.20	25.65	Biotite-Chlorite Schist	As before, foliation at 40-45° to C.A. 25.20-25.36: Quartzite band at 43° to C.A. 25.44-25.56: Several irregular quartz patches.	40-45°			
25.65	26.60	Quartzite with Schist Interbands	Light to medium grey, fine grained, mostly fairly massive, but contains occasional schist bands up to 10 cm. 26.05-26.22: Estimate 40% quartz as patches and stringers. 26.25 : 7 mm quartz stringer at 32° to C.A. 26.35 : 5 mm quartz stringer at 45° to C.A. 26.50-26.54: Several 1-5 mm quartz stringers at 55° to C.A.				
26.60	26.80	Ground Core					
26.80	27.35	Quartzite with Schist Interbands	Light grey, fine grained, fairly massive, vaguely foliated at 45-50° to C.A. 26.90-27.06: Rusty section, several rusty fractures at 15 and 30° to C.A.	45-50°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			26.25-26.28: Quartz stringer at 70° to C.A., minor limonite stain.				
27.35	27.85	Biotite Chlorite Schist	As above, foliated at 50-55° to C.A., several chloritic fractures at 70-90° to C.A. 27.40-27.42: Quartz patch. 27.53-27.57: Quartz stringer at 70° to C.A. 27.81-27.85: Quartz stringer at 70° to C.A.	50-55°			
27.85	28.06	Quartzite	Rusty brown, fine grained, fairly massive. Contains a few fractures at 20 and 45° to C.A., often with FeMn stain, contains several chloritic fractures at 70-90° to C.A.				
28.06	28.93	Interbanded Schist and Quartzite	Pale grey green, well foliated at 45-50° to C.A., numerous quartz stringers parallel to foliation. 28.07-28.12: Quartz stringer at 25° to C.A. 28.35-28.45: Estimate 30% quartz as narrow stringers and patches. 28.60-28.71: Narrow quartzite band at 35° to C.A. 28.75-28.76: Quartz stringer at 35° to C.A.	45-50°			
28.93	33.35	Quartzite	Light grey, fine grained, contains numerous micaceous partings at 50-60° to C.A., occasional fractures at 25° to C.A. Often coated with FeMn stain. 29.53 : 8 mm quartz stringer at 25° to C.A., vuggy.	50-60°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			30.00-31.00: Very massive section. 30.95 : 3 mm yuggy quartz stringer at 20° to C.A. 31.17-31.50: A few 1-5 mm discontinuous quartz stringers at 25-35° to C.A. 31.60 : 3 mm quartz stringer at 50° to C.A. 31.64 : 3 mm quartz stringer at 50° to C.A. 32.23-32.30: Several rusty fractures at 85° to C.A. 32.76-32.81: Quartz patch, slightly rusty. 32.85-32.88: Quartz stringer at 35° to C.A. Slightly rusty, contains a few FeMn coated fractures at 30° to C.A.				
33.35	33.70	Biotite Chlorite Schist	Dark grey to black, well foliated at 40-45° to C.A. 33.35-33.37: Quartz stringer at 63° to C.A., fractured at 55° to C.A., fractures chlorite filled.	40-45°			
33.70	34.10	Quartzite	Light grey, fairly massive, fine grained, slightly rusty. Vaguely foliated at 50-55° to C.A.	50-55°			
34.10	37.30	Biotite Chlorite Schist	As before, foliation at 45-60° to C.A. Contains a few narrow quartzite bands. 34.15-34.17: Soft mud seams at 60° to C.A. 34.30-34.32: Quartz patch, slightly rusty. 34.63-34.83: Numerous vugs, often rusty.	45-60°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			34.83-35.00: Estimate 40% quartz as irregular patches, slightly rusty. 35.22-35.24: Quartz stringer at 72° to C.A. Slightly rusty. 35.61-35.65: Quartz stringer at 50° to C.A., contains 10% chlorite. 35.68 : Mud seam, grey, soft clay recovered. 35.72-35.76: Quartz patch, contains traces chlorite. 36.14-36.15: Quartz stringer at 53° to C.A. 36.24 : 4 mm quartz stringer at 55° to C.A. 36.38-36.42: Quartz stringer at 60° to C.A. 36.45 : 5 mm mud seam. 36.57-36.58: Quartz stringer at 85° to C.A. 36.63-36.65: Quartz stringer at 75° to C.A. 37.12-37.18: Several patches, rusty quartz. 37.28 : Traces malachite in rusty vug.				
37.30	39.26	Quartzite with Schist Interbands	Quartzite is light grey, fine grained, massive schist interbands at 45-50° to C.A. 37.78 : 4 mm quartz stringer at 48° to C.A. 38.00 : 3 mm quartz stringer at 30° to C.A., some FeMn staining. 38.35-38.95: Several fractures at 5° to C.A., filled with white kaolinite.	45-50°			

From	To	Rock Name	Description	CA	From	To	Sample No.
39.26	39.50	Ground Core					
39.50	40.00	Quartzite with Schist Interbands	As above. 39.53-39.85: Altered section, vague foliation, appears recumbent (fold axis). Considerable FeMn staining and other light colored mineralization.(epidote??) 39.68 : 1.5 cm quartz patch with bleb chalcopyrite.				
40.00	41.27	Biotite Chlorite Schist with a few Quartzite Interbands	Mostly schist with a few quartzite bands, generally less than 5 cm. 40.37 : 7 mm quartz stringer at 50° to C.A. 40.45-40.58: Quartz stringer at 70° to C.A. 40.66-40.69: Quartz stringer at 90° to C.A. 41.15-41.27: Several irregular quartz patches.				
41.27	42.68	Quartzite	Light grey, fine grained, massive. Contains a few narrow schist bands. 41.89-41.96: Quartz stringer at 40° to C.A. 42.00-42.10: Quartz stringer, contacts lost in broken core. 42.48-42.52: Quartz stringer at 62° to C.A.				
42.68	44.43	Biotite Chlorite Schist	Dark grey, finely foliated at 60-70° to C.A. Contains a number of discontinuous quartz stringers and occasional quartz patches scattered through section.	60-70°	43.43	44.43	40347

From	To	Rock Name	Description	CA	From	To	Sample No.
			42.83-42.85: Quartz stringer at 64° to C.A., slightly rusty. 43.43-43.45: Quartz stringer at 70° to C.A. 43.65-43.74: Several irregular quartz patches. 43.77-43.80: Quartz stringer at 70° to C.A., slightly rusty.				
44.43	49.03	Quartzite in Occasional Schist Bands	Light grey, fine grained, hard, fairly massive. Several dark bands schist, generally 1-5 cm. at 60-70° to C.A. Quartzite contains occasional fractures at 20 and 45° to C.A. 45.21-45.23: Quartz stringer at 80° to C.A. 45.23-45.40: A number of rusty fractures at 25 and 40° to C.A. 45.68-45.75: Several slightly rusty quartz stringers at 60-70° to C.A. Estimate 30% quartz stringers 5 mm-1cm. 45.75-45.95: Several rusty fractures at 20° and 45° to C.A. 45.92 : 7 mm quartz stringers at 68° to C.A. 46.80-47.00: Several chlorite filled fractures at 30° to C.A. 47.80-47.89: Quartz stringer at 85° to C.A. 48.46-48.55: Quartz stringer at 60° to C.A., contains a few rusty chlorite filled fractures. 48.55-49.03: A number of rusty fractures at 20° to C.A.	60-70°	44.43	45.43	40348

From	To	Rock Name	Description	CA	From	To	Sample No.
49.03	54.48	Biotite Chlorite Schist in Quartzite Interbands	Medium to dark grey, well foliated at 60-70° to C.A., contains several bands quartzite up to 10 cm, these bands light grey, massive. 49.15-49.23: Occasional quartz patches. 49.39-49.40: Quartz stringer at 50° to C.A. 49.67-49.69: Quartz stringer, slightly rusty at 50° to C.A. 49.70-49.75: Quartz patch, slightly rusty. 49.96-49.97: Quartz stringer, slightly rusty at 65° to C.A. 49.98 : FeMn stained fracture at 60° to C.A. 50.16-50.19: Quartz stringer, slightly rusty at 40° to C.A. 50.63-50.70: Several quartz patches. 50.80 : 2 cm x 5 cm quartz patch. 51.70-51.76: Discontinuous quartz stringer and patches. 52.44-52.46: Quartz stringer 70° to C.A. 52.91-53.09: Quartzite band at 63° to C.A. 53.41 : 5 mm quartz stringer at 70° to C.A. 53.60-53.61: Quartz stringer at 50° to C.A. 53.62-53.84: Quartzite band. 54.01-54.04: Quartz stringer at 70° to C.A.	60-70°			
54.48	58.50	Quartzite with a few Schist bands	Mostly light grey, fine grained quartzite with a few schist bands. Quartzite vaguely foliated at 70° to C.A. Schist bands generally contain a number of quartz stringers parallel to foliation, usually at about 70° to C.A.	70°.			

From	To	Rock Name	Description	CA	From	To	Sample No.
			55.26-55.31: Vuggy, vugs rusty. 56.36 : 2 mm quartz stringer at 73° to C.A. 56.96 : 3 mm quartz stringer at 70° to C.A. 57.40-57.42: Quartz patch. 57.77-58.00: A number of rusty fractures at 65° to C.A. 58.00-58.20: Several rusty fractures at 15° to C.A. 58.21-58.22: Chlorite seam at 60° to C.A. 58.27-58.38: Chlorite seam at 80° to C.A. 58.43 : 1 cm quartz stringer at 20° to C.A., slightly rusty.		57.50	58.50	40349
58.50	58.90	Quartzite Breccia	Quartzite chips, generally 1-3 mm in chloritic matrix, core highly broken up. Some chips are chloritic material with no quartzite chips.		58.50	58.90	40350
58.90	59.10	Ground Core					
59.10	59.30	Mud Seam	Soft grey clay-like mud recovered, a few chips quartzite breccia present.		59.10	59.30	40351
59.30	59.40	Ground Core					
59.40	59.62	Quartzite Breccia	As above. Core chips only recovered.		59.40	59.62	40352
59.62	60.30	Quartzite	Light grey, fine grained, core highly broken up. Chips recovered. A few schist bands evident, several fractures at 5-15° to C.A. filled with quartz and quartz-carbonate.		59.62	60.30	40353

From	To	Rock Name	Description	CA	From	To	Sample No.
60.30	60.60	Quartzite Breccia	Similar to above. Only chips and clay recovered.		60.30	60.60	40354
60.60	61.20	Ground Core					
61.20	61.50	Quartzite Breccia	Quartzite pieces up to 1 cm. (80%) in dark green chloritic matrix (20%). Some rusting present.		61.20	61.50	40355
61.50	62.70	Quartzite	Medium grey, fine grained, hard. Highly fractured at 5, 25 and 50° to C.A. Core highly broken up. 62.50 : 1 cm quartz stringer, slightly rusty. Contacts lost in broken core.		61.50	62.70	40356
62.70	62.90	Biotite Chlorite Schist	A few pieces core up to 2 cm and soft sand recovered.		62.70	62.90	40357
62.90	63.40	Ground Core					
63.40	63.65	Biotite Chlorite Schist	Medium to dark grey, soft, well foliated at 70-75° to C.A. Contains a few 1-2 mm quartz stringers parallel to foliation.	70-75°	63.40	63.65	40358
					63.65	63.95	40359
63.65	63.95	Quartzite Breccia	Quartzite fragments from 2 mm to 2 cm in chloritic matrix.				
63.95	64.15	Quartzite	Fine grained, hard, very massive, fractured at 50-55° to C.A.		63.95	64.15	40360
64.15	64.90	Ground Core					
64.90	65.67	Quartzite	As above, fractured at 45 and 10° to C.A. Most fractures filled with chloritic material, some fractures coated with FeMn stain.		64.90	65.67	40361

From	To	Rock Name	Description	CA	From	To	Sample No.
65.67	65.90	Ground Core					
65.90	66.86	Quartzite	As above. 66.18-66.27: Irregular chloritic patch		65.90	66.86	40362
66.86	67.40	Ground Core					
67.40	67.62	Biotite Chlorite Schist	Only chips recovered.		67.40	67.62	40363
67.62	68.90	Ground Core					
68.90	69.90	Quartzite	Light grey, fine grained, massive. Fractured at 65-70° to C.A. Fractures filled with chloritic material, often rusty. A few FeMn coated fractures nearly parallel to C.A. 69.90 : Traces malachite		68.90	69.90	40364
69.90	70.10	Ground Core					
70.10	70.74	Quartzite Breccia	Quartzite chips (60%), generally angular in black (tourmaline?) matrix. 70.17-70.28: Several traces malachite. 70.46-70.52: Several traces malachite.		70.10	70.74	40365
70.74	71.15	Schist Quartzite Breccia	Very dark green to black. Estimate 60% schist chips, 20% quartzite chips in chlorite-rich matrix, contains 2-3% quartz and quartz carbonate. filling intersertal spaces.		70.74 71.15	71.15 72.15	40366 40367
71.15	73.00	Biotite Chlorite Schist	Light grey, highly foliated at 60-70° to C.A., contains a few narrow bands quartzite. 71.24 : 5mm quartz stringer at 70° to C.A.	60-70°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			71.25-71.27: Quartz stringer at 75° to C.A. 71.31-71.40: Quartz patch. 71.71 : 5 mm quartz stringer at 55° to C.A. 72.60-72.61: Quartz stringer at 75° to C.A. 72.64 : 4 mm quartz stringer at 75° to C.A. 72.80 : Irregular quartz patch.				
73.00	73.20	Ground Core					
73.20	74.40	Biotite Chlorite Schist	Dark grey to black, highly foliated at 60-70° to C.A. Soft. 73.75-74.10: Chips only recovered. 74.30-74.40: Soft grey mud and chips recovered.	60-70°			
74.40	74.70	Ground Core					
74.70	75.90	Biotite Chlorite Schist	As above, foliated at 65-75° to C.A. Occasional 1-3 mm quartz stringers parallel to foliation.	65-75°			
75.90	76.20	Ground Core					
76.20	79.00	Biotite Chlorite Schist	Dark grey to black with a few lighter colored bands, well foliated at 50-70° to C.A. Contains a number of 1-3 mm quartz and quartz-carbonate stringers parallel to C.A. A number of rusty fractures at 60° to C.A. Occasional quartzite bands up to 5 cm. 77.20-77.50: Soft, lightly rusted chips only recovered. 78.14-78.26: Soft, chips only recovered.	50-70°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			78.70-78.88: Soft, chips only recovered.				
79.00	79.75	Quartzite	Light grey, medium grained, highly fractured at 15 and 40° to C.A., fractures coated with yellow-brown limonite stain.				
79.75	80.20	Ground Core					
80.20	85.05	Quartzite	Light to medium grey, fine to medium grained core highly broken up, extremely blocky, contains a few narrow schist bands, generally less than 1 cm. Contains a few rusty fractures at 10-15° to C.A. 82.80-82.93: Irregular quartz patch, contains 2-3% chlorite. 83.04-83.06: Quartz stringer at 73° to C.A., contains 5% chlorite. 83.16-83.26: Quartz patch, very irregular, contains 5-10% chlorite. 83.84-84.01: Quartz patch or stringer, contacts lost in broken core. 84.15-84.19: Quartz stringer at 72° to C.A. 84.70-85.05: Several rusty fractures, mostly at 10 and 35° to C.A. Core highly broken up.				
85.05	85.30	Ground Core					
85.30	85.32	Mud Seam	Grey, fine-grained mud seam at 65° to C.A.		85.30	85.45	40368
85.32	85.45	Quartzite Breccia	Quartzite fragments from 2 mm to 1 cm in light colored rock-flour matrix.				

From	To	Rock Name	Description	CA	From	To	Sample No.
85.45	86.10	Quartzite	Light grey, fined grained, core very broken up, contains numerous hairline fractures at random angles to C.A., filled with quartz carbonate.				
86.10	86.30	Ground Core					
86.30	87.00	Biotite Chlorite Schist	Medium grey, contains more quartz than most schist sections, some sericite present. Soft enough to scratch. Fractured at 25-30° to C.A., fractures filled with quartz carbonate. Foliation at 50-55° to C.A. Core highly broken up. 86.45 : 7 mm quartz stringer at 47° to C.A.	50-55°			
87.00	92.30	Quartzite	Light grey, fine to medium grained, vaguely foliated at 50-55° to C.A., contains a number of 1 mm quartz carbonate stringers at 45-50° to C.A. 91.26-91.60: Extremely soft, mostly mud and chips of quartzite recovered.	50-55°			
92.30	92.48	Quartzite Breccia	Quartzite chips up to 1 cm in rock flour matrix. Matrix light cream color, soft.		92.30	92.48	40369
92.48	93.05	Quartzite	Light grey, fine grained, massive. Contains a few hairwidth fractures at random angles to C.A., filled with quartz carbonate. 92.68 Traces malachite.				
93.05	93.30	Ground Core					
93.30	95.80	Quartzite	As above, contains a few quartz stringers, generally less than 5 mm at 25° to C.A. 94.42-94.62: Quartz patch, upper contact at 68° to C.A.				

From	To	Rock Name	Description	CA	From	To	Sample No.
			Lower contact irregular. 94.65 : 3 mm chloritic seam at 5° to C.A. 94.70 : Estimate 35% quartz as stringers or patches in badly broken up core. 95.10-95.15: Quartz patch. 95.33-95.67: Quartz patch or stringer, contacts irregular. Contains 5-7% chlorite.				
95.80	97.55	Biotite Chlorite Schist	Medium to dark grey, foliation at 50-55° to C.A. 96.00-96.13: Very soft, schist chips in soft grey mud. 96.83-97.55: Quartz stringer or patch, upper contact 20° to C.A. lower contact destroyed in broken core. Contains 5-7% chlorite.	50-55°	95.80 96.55 97.55	96.55 97.55 98.40	40370 40371 40372
97.55	98.40	Quartzite	As above. 97.76-97.78: Quartz carbonate stringer at 55° to C.A. 98.00-98.40: Quartz patch, contains 10% chlorite.				
98.40	98.60	Ground Core					
98.60	100.00	Quartzite	As above, vaguely foliated at 55° to C.A. 98.73-98.75: Mud seam at 67° to C.A.		98.60	99.60	40373
100.00	100.55	Biotite Chlorite Schist	Dark grey, well foliated at 55° to C.A. 100.40 : Hairline fracture at 10° to C.A., filled with quartz carbonate.				

From	To	Rock Name	Description	CA	From	To	Sample No.
100.55	102.32	Quartzite	Light grey, fine grained, massive, contains several chloritic partings at 50-55° to C.A. Contains several fractures, usually less than 1 mm, filled with quartz carbonate, fractures at random angles to C.A. 101.32-102.15: 2 mm chlorite seam nearly parallel to C.A. Occasional traces sphalerite and pyrite.	50-55°			
102.32	103.00	Quartzite Breccia	Quartzite and schist fragments up to 1 cm (80%) in rock flour matrix. Very lightly rusted.		102.32	103.00	40374
103.00	104.65	Quartzite	Light grey, fine grained, fairly massive, contains odd schist bands up to 2 cm scattered through section. 103.00-103.80: Numerous fractures at 20° and 60° to C.A., fractures filled with light green carbonate? 104.14-104.22: Quartz stringer at 43° to C.A., contains 10% chlorite. 104.34-104.36: Schist band at 43° to C.A. 104.40-104.41: Schist band at 41° to C.A. 104.54 : 2 mm quartz carbonate stringer at 20° to C.A.				
104.65	105.50	Biotite Chlorite Schist with Quartzite Interbands	Medium to dark grey, well foliated at 50-65° to C.A., contains occasional quartzite bands. 105.04-105.11: Quartz stringer at 48° to C.A., contains 3% chlorite.	50-65°			

From	To	Rock Name	Description	CA	From	To	Sample No.
105.50	105.60	Ground Core					
105.60	106.00	Quartzite Schist Breccia	Chips of quartzite and schist up to 1 cm in rock flour matrix, slightly rusty.				
106.00	106.40	Biotite Chlorite Schist	Dark grey to black, well foliated at 60° to C.A.	60°			
106.40	106.90	Quartz Vein	Upper contact lost in broken core, contains 2-3% chlorite.				
106.90	107.00	Ground Core					
107.00	107.30	Quartz Vein	As above, lower contact lost in broken core.				
107.30	114.90	Quartzite	Medium grey, fine-grained, hard, massive, vaguely foliated at 48° to C.A., contains a number of fractures at 15° to C.A., filled with quartz carbonate. Extremely blocky, core highly broken up. 109.62-109.75: Several narrow dark schist bands at 57° to C.A. 110.80-111.50: Slightly rusty, several rusty fractures at 55° to C.A., contains a few quartz eyes(tuff?) 114.00-114.50: A few small dark quartz eyes, ?crystal tuff. 114.50-114.80: Several micaceous partings at 53° to C.A.	48°			
114.90		END OF HOLE					

CCH RESOURCES LTD.

DIAMOND DRILL LOG

VENTURE CORTIN

PROJECT

PROPERTY EPD

LOCATION

GRID

Location 100 + 4.8 N

Section 102 + 20.2 W

Bearing 350 True

Dip -44.5

Length 90.90 m

horizontal length 64.8m

TESTS

TROPARI

Depth	Mag Brg	Corr Brg	Dip	Dip
30.48 m			37	30
60.96 m			37	30
90.83 m			37	30

ACID

SURVEY

Latitude

Departure

Elevation

Bearing

Dip

PHYSICAL DATA

Core Size AQ to end , to

Date Started August 15, 1979

Date Completed August 20, 1979

Casing Pulled yes

Core Recovery 58.8%

Cemented no

Core Location: In storage at Oliver Creek camp site 115-P-15

Logged by A. Woodsend

Contractor Canico

NOTES: 1) Give reference - Magnetic, Grid, True

2) Corrected dip.

DDH No. EPD 79-01

rom	To	Rock Name	Description	CA	From	To	Sample N
0	7.81	Casing					
7.81	7.91	Quartzite	Quartz-sericite-chlorite, rusty patches on foliation planes, poorly foliated.		7.81	7.91	23000
7.91	12.37	CL					
12.37	12.57	Chloritic Quartzite	Highly foliated quartz-chlorite-sericite, incipient brecciation, small rusty patches near brecciated material, breccia confined to a 0.01m cross-cutting vein. At base of this section vuggy quartz vein 0.01m.	breccia 75°	12.37	12.57	23001
12.57	14.74	CL					
14.74	15.74	Quartzite	Quartz-sericite-chlorite, well foliated, little post metamorphic alteration, some variation in quartz content, occasional rusty fractures.	F30°	14.74	15.74	23002
15.74	15.81	CL					
15.81	16.46	Quartzite	As above		15.81	16.46	23003
16.46	16.65	CL					
					16.65	17.68	23004
16.65	16.67	Quartzite	As above				
16.67	16.93	CL					
16.93	17.68	Quartzite	As above, small 0.01m chlorite band post metamorphic at 16.87, cross-cutting fractures, chlorite limonite infilled, at 17.28				
17.68	17.69	CL					
17.69	18.29	Quartzite	Quartz-sericite-chlorite, well foliated, some minor cross-cutting quartz sweats, generally uniform composition.	F50°	17.69	18.29	23005

From	To	Rock Name	Description	CA	From	To	Sample N.
18.29	18.32	CL					
18.32	18.94	Quartzite	As above, but slight brecciation at 18.94 with cross-cutting chlorite-limonite-filled fractures.	F10°	18.32	18.94	23006
18.94	18.98	CL					
18.98	19.61	Quartzite	Silicified quartz-sericite-chlorite, foliation still clear but more massive due to pervasive silicification. Occasional chlorite-limonite-filled fractures with more intense clotty limonite at 19.31.	F50°	18.98	19.61	23007
19.61	19.71	CL					
19.71	19.81	Quartzite	Slightly silicified quartz-chlorite-sericite		19.71	20.93	23008
19.81	19.96	CL					
19.96	20.93	Quartzite	As above				
20.93	21.63	(brecciated) quartzite	Moderately brecciated quartzite-chlorite-sericite, silicified. Silicification producting very quartz-rich sections with cross-cutting chlorite-limonite fractures.		20.93	21.63	23009
21.63	21.95	CL					
21.95	23.87	(brecciated) Quartzite	As above, in parts strong chloritisation, though always > 50% quartz	Fol 45°	21.95	22.95	23010
				Fract 85°	22.95	23.87	23011
23.87	24.70	CL					
24.70	27.40	(brecciated) Quartzite	As above, slightly more brecciated at 25.6, 26.3. Minute specks cpy at 25.6 + unidentified black mineral ?Mn.	Fract 80°	24.70	25.70	23012
				fol	25.70	26.70	23013
27.40	29.46	Schist	Quartz-chlorite(sericite) schist, silicified, slightly fract.	30°	26.70	27.40	23014

DDH No. EPD 79-01

From	To	Rock Name	Description	CA	From	To	Sample N
			fractures chloritic; limonitic. Strong narrow 0.01m limonite fractures + ep + chlorite(boxwork=?cpy) at 28.80	fol 25°	27.40 28.40	28.40 29.46	23015 23016T
29.46	33.32	Schist	More chloritic schist(chlorite,quartz(sericite) schist) strongly foliated, occasional quartz veins, more chloritised with limonitic fractures 31.07,31.57,32.62, 33.02	frac 60°	29.46 30.46 31.46 32.46	30.46 31.46 32.46 33.32	23017 23018 23019 23020
33.32	34.27	Chloritic Schist	Heavily chloritised schist with good foliation, moderately fractured + limonite, unidentified pink mineral, h<5.	fol 50°	33.32	34.27	23021 T
34.27	34.42	Chloritic Schist (brecciated)	Chloritic schist, silicified and fractured. Fractures limonitic.	frac 75°	34.27	34.42	23022
34.42	34.98	Chloritic Schist	As above 33.32-34.27		34.42	34.98	23023T
34.98	35.41	(brecciated) Quartzite	Quartz-chlorite-sericite insipient brecciation fractures with limonite		34.98	35.41	23024 T
35.41	35.44	QV & cassiterite	QV+ limonite + epidote + chlor + calcite? +Goethite + cassiterite + malachite. Cass <0.5%		35.41	35.44	23025
35.44	35.64	QV & chloritised schist	Narrow QV's with interspaced chloritised schist	fol 30°	35.44 35.64	35.64 36.64	23026 23027T
35.64	37.02	Quartzite	Quartz-chlorite- moderately chloritised in places,moderately fractured with limonite + calcite + (Ep) fractures. chloritisation decrease down hole.	fract 70°	36.64	37.02	23028T

DDH No. EPD 79-01

From	To	Rock Name	Description	CA	From	To	Sample N
37.02	37.17	Q.V.	Q.V. yellowy with chloritic fractures	fol 50°	37.02	37.17	23029
37.17	38.34	Quartzite	Quartz-chlorite- more siliceous than above Moderately fractured, bands of pink ? garnets		37.17	38.34	23030T
38.34	38.44	Chloritised schist	Heavily chloritised schist, structure still viz.		38.34	39.34	23031T
				fol 20°	39.34	40.34	23032
38.44	41.03	(Chloritised) schist	Quartz chlorite(sericite)schist; moderately chloritised, weakly fractured, occasional Q.V.S.,<0.01m		40.34	41.53	23033T
41.03	41.53	Chloritised schist	Heavily chloritised schist, weakly fractured	fol 20°			
41.53	41.76	CL					
41.76	42.46	Quartzite (chloritised)	Partly chloritised Quartzite-chlorite-(sericite)- very chloritic basal 0.01m, moderately fractured with fracture fill of quartz, limonite + manganese		41.76	42.46	23035
42.46	43.03	CL					
43.03	43.08	Chlorite breccia	Three pieces only massive "chloritite"		43.03	43.08	23036
43.08	46.07	CL					
46.07	46.23	Chlorite breccia + Q.V.	v. broken chlorite, chlorite schist + Q.V.		46.07	46.23	23037
46.23	49.88	CL					
49.88	51.00	(brecciated) Quartzite	Quartz -chlorite-sericite, heavily fractured, incipient brecciation.Q. veining at top of section, several strong 0.01 m chlorite-limonite veinlets, no viz. min.	fract 60° fol 20°	49.88	51.94	23038

DDH No. EPD 79-01

From	To	Rock Name	Description	CA	From	To	Sample N.
51.00	51.64	Quartzite	Quartzite+chlorite, silicified slightly fractured, fractures limonite-coated. Increasingly altered to following section.	fol 15° fract			
51.64	51.94	fractured Quartzite	Grades to a more fractured, more chloritic quartzite, <0.01m chlorite-limonite veinlet	80° 65°			
51.94	52.14	chloritised schist	strongly chloritised 60% chlor., 40% quartzite, schistocity still viz. Clotty limonite vugs, cpy + ? sphal + ? manganese in fractures and dissem. 0.5% sulphides.	fract variable 90-50°	51.94	52.14	23040
52.14	52.44	Quartz breccia	Breccia, quartz frags. cemented by chlorite-sericite 80% frag. 20% matrix, no viz. min., upper contact sharp at 45° lower contact obscured by broken core		52.14	52.67	23041
52.44	52.67	(chloritised) Quartzite	slightly chloritised, silicified, moderately fractured	fol 22°			
52.67	54.24	CL					
54.24	54.45	Quartz breccia	Breccia as above. Core v. broken		54.24	54.45	23042
54.45	54.75	Schist (chloritised)	Silicified (chloritised) quartz -chlorite schist moderately fractured		54.45	54.75	23043
54.75	55.11	CL					
55.11	55.21	Quartz breccia	As above but 90% qtz, 10% chlor, occasional small malachite specks		55.11	56.00	23044
55.21	55.83	CL					
55.83	56.00	Quartz breccia	As above. Malachite specks in fractures				

From	To	Rock Name	Description	CA	From	To	Sample
56.00	58.62	CL					
58.62	58.82	Quartzite	v. broken core, qtz.-chlor.-ser.- Little evidence of chloritisation or brecciation		58.62	58.82	23045
58.82	60.89	CL					
60.89	61.39	Quartzite	Quartzite-chlor.-ser. No viz. chloritisation. Fracturing weak, occasional fractures carry limonite + qtz.		60.89	61.39	23046
61.39	61.49	QV	Top contact 45°, clean qtz. with chloritic salvages.		61.39	61.49	23047
61.49	61.59	Mud seam	Grey mud with fine schist particles				
61.59	62.19	Quartzite	Qtz.-chlor.-sericite, weakly fractured, fractures carry limonite + manganese, slightly siliceous at top and bottom of section.	fol 20°	61.49 61.59	61.59 62.19	23048 23049
62.19	62.28	CL					
62.28	63.09	Quartzite	Moderately fractured, slightly siliceous qtz.-ser.-chlor. fract. occasionally vuggy with limonite + qtz. No viz. min.	fract 70°	62.28	63.09	23050
63.09	63.29	Quartzite (brecciated)	V. broken quartzite + mud seam, possible breccia zone	fol 35° fract 50°	63.09	63.29	23051
63.29	64.92	CL					
64.92	65.82	Quartzite	Silicified slightly chlor., moderately fractured. fracture fill is chlorite + QV + limonite. No viz. min.		64.92	65.82	23052
65.82	65.92	Quartz Breccia	Brecciated quartzite, weak chlor.,manganiferous cavities	fol 15° fract 70°	65.82	65.92	23053
65.92	66.14	CL					

From	To	Rock Name	Description	CA	From	To	Sample N
66.14	66.34	Quartz breccia	Breccia as above		66.14	66.34	23054
66.34	66.44	Schist	Dark chlorite (qtz.-ser.) schist. No appreciable post metamorphic chlorite. V. well foliated		66.34	66.44	23055
66.44	67.67	CL					
67.67	68.27	Schist	Chlorite schist as above	fol 40°	67.67	68.27	23056
68.27	69.19	CL					
69.19	70.10	Quartzite	Moderately fractured interbedded (chloritised) chlorite quartzite and quartz-chlorite-quartzite. Fractures carry qtz. + limonite + chlorite with small specks py + sphal. in fractures and disseminated into chloritic parts of quartzite		69.19	70.10	23057
70.10	72.00	(brecciated) quartzite	v. fractured partly brecciated qtz.-chlor.(ser). Fractures carry chlorite + limonite.		70.10	71.10	23058
				fract. 80°	71.10	72.00	23059
72.00	72.50	brecciated quartzite	Brecciated quartz-chlorite. Fractures abundant - limonite filling. General fracture trend - 80°	fol 15°	72.00	72.50	23060
72.50	72.70	Quartzite	Fractured quartz-chlorite		72.50	72.70	23061
72.70	73.05	CL		Fract			
73.05	75.12	Quartzite	Fractured qtz.-chlor.-ser. fractures infrequent but strong, carry chlor. + qtz. + limonite 74.32 narrow <0.01m fractures carry 30% py 60% Chlor 10% limonite	80° Fol 30°	73.05 74.05	74.05 75.12	23062 23063
75.12	75.29	CL					

From	To	Rock Name	Description	CA	From	To	Sample N
75.29	75.64	Schist	Qtz.-chlor.-(ser.) schist		75.29	75.64	23064
75.64	75.69	Chlorite schist	Strongly chloritised schist		75.64	75.69	23065
75.69	76.22	CL					
76.22	76.77	Quartzite	Qtz.-chlor.-ser. - little fracturing, little alteration	fol 30°	76.22	76.77	23066
76.77	77.90	CL					
77.90	78.50	Quartzite	As above		77.90	78.50	23067
78.50	78.80	Quartz breccia	brecciated quartzite		78.50	78.80	23068
78.80	79.20	Quartzite	Quartzite as above		78.80	79.20	23069
79.20	79.30	Quartz breccia	brecciated quartzite		79.20	79.30	23070
79.30	80.72	Chloritised quartzite	fractured chloritic quartzite, fractures infilled with clayey material and carrying mal. + cpy at 79.50 and cpy at 79.80m + cpy at 80.40m	fract 85° fol 40°	79.30	80.72	23071
80.72	81.39	Chloritised quartzite	chloritised qtz.-chlor.-ser. well foliated, chlorite increases to base of section		80.72	81.39	23072
81.39	81.79	Breccia	chlorite qtz. breccia, qtz. + chlorite fragments 30% chlorite matrix 70% cpy + mal. in fractures = ± 0.1%		81.39	81.79	23073
81.79	82.91	CL					
82.91	83.21	Chlorite schist	chloritised chlor.-qtz.-schist well foliated	fol 35°	82.91	83.21	23074
83.21	83.39	CL					

From	To	Rock Name	Description	CA	From	To	Sample No.
83.39	83.64	Chlorite schist	as above		83.39	83.64	23075
83.64	84.49	CL					
84.49	84.79	Chloritised quartzite	chloritised chloritic quartzite	fol 25°	84.49	84.79	23076
84.79	85.95	CL					
85.95	86.15	Chloritised quartzite	as above	fract. 85°	85.95	86.15	23077
86.15	86.45	Brecciated quartzite	brecciated chloritic quartzite well fractured. Fractures filled with calcite + clay mins, no viz. min.		86.15	86.45	23078
86.45	87.48	CL					
87.48	87.98	Chloritised quartzite	slightly fractured, QV's at base of section < 0.01m		87.48	87.98	23079
87.98	88.14	CL					
88.14	89.29	Chloritised quartzite	slightly fractured chlor. quartzite becoming more intensely fractured and chloritised to base. Fractures limonitic and chloritic		88.14	89.29	23080
89.29	89.94	Brecciated quartzite	Highly fractured brecciated quartzite. Fractures < 0.01m with chlor.+limonite. No viz. min. except towards base, patches cpy in chlorite veinlets.		89.29	89.94	23081
89.94	90.14	Chlorite breccia	Total breccia 10% qtz. 90% chlorite, cpy., mal., az. in patchy vugs and veinlets throughout. Original content 2% sulphide.	fol 45°	89.94	90.14	23082

From	To	Rock Name	Description	CA	From	To	Sample No
90.14	90.90	Brecciated quartzite	As above 89.29-89.94 with cpy in chloritic fractures at top HOLE STOPS 90.90 m.	fract 70°	90.14	90.90	23083

DDH No. EPD 79-01

CORTIN JOINT VENTURE

HOLE : EPD - 79 - 01 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 1

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.) Sn	W	Cu	Pb	Zn	Ag	Mo
2300	7.81	7.91	0.10		10	5	70	500	4300	3.7	3
CL	7.91	12.37	4.46								
2301	12.37	12.57	0.20		6	12	188	62	600	2.3	10
CL	12.57	14.74	2.17								
2302	14.74	15.74	1.00		145	3	73	20	465	0.5	2
CL	15.74	15.81	0.07								
23003	15.81	16.46	0.65		5	3	40	12	310	0.8	2
CL	16.46	16.65	0.19								
23004	16.65	16.67	0.02		40	4	152	20	400	2.5	2
	16.93	17.68	0.75								
CL	16.67	16.93	0.26								
CL	17.68	17.69	0.01								
23005	17.69	18.29	0.60		5	3	55	13	350	1.0	2
CL	18.29	18.32	0.03								
23006	18.32	18.94	0.62		7	4	52	22	285	2.3	2
CL	18.94	18.98	0.04								
23007	18.98	19.61	0.63		L5	8	40	11	210	0.9	2
CL	19.61	19.71	0.10								
23008	19.71	20.93	1.22		10	6	68	8	275	0.5	2
23009	20.93	21.63	0.70		9	6	32	10	145	1.8	3
CL	21.63	21.95	0.32								
23010	21.95	22.95	1.00		133	6	157	12	555	1.0	2
23011	22.95	23.87	0.92		680	6	106	22	275	0.5	1
CL	23.87	24.70	0.83								
23012	24.70	25.70	1.00		97	7	90	15	375	1.2	2
23013	25.70	26.70	1.00		98	7	148	21	990	7.4	2

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 01 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 2

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.) Sn	W	Cu	Pb	Zn	Ag	Mo
23014	26.70	27.40	0.70		640	9	40	21	250	0.3	2
23015	27.40	28.40	1.00		68	4	89	8	385	2.0	2
23016	28.40	29.46	1.06	0.13	1160	8	395	10	565	13.2	2
23017	29.46	30.46	1.00		20	3	141	82	370	2.0	2
23018	30.46	31.46	1.00		15	4	200	19	390	6.6	2
23019	31.46	32.46	1.00		25	4	95	30	300	2.5	3
23020	32.46	33.32	0.86		87	6	268	10	755	4.1	1
23021	33.32	34.27	0.95	1.25	G2000	20	665	112	1000	31.0	4
23022	34.27	34.42	0.15		52	6	655	121	715	31.0	2
23023	34.42	34.98	0.56		211	4	425	30	720	17.3	4
23024	34.98	35.41	0.43	2.46	G2000	6	132	49	395	5.2	5
23025	35.41	35.44	0.03	25.70	G2000	10	605	19	880	15.7	4
23026	35.44	35.64	0.20	4.20	G2000	8	393	30	545	11.7	2
23027	35.64	36.64	1.00	0.56	G2000	3	180	10	540	17.8	4
23028	36.64	37.02	0.38		80	6	165	40	500	17.4	11
23029	37.02	37.17	0.15	0.07	1040	5	120	86	105	0.7	8
23030	37.17	38.34	1.17	0.78	G2000	7	192	10	455	6.2	3
23031	38.34	39.34	1.00	0.90	G2000	6	198	27	480	2.2	4
23032	39.34	40.34	1.00		450	7	181	11	450	2.0	4
23033	40.34	41.53	1.19	0.27	2300	5	150	10	425	2.0	4
CL	41.53	41.76	0.23								
23035	41.76	42.46	0.70		212	4	290	61	500	7.4	5
CL	42.46	43.03	0.57								
23036	43.03	43.08	0.05		90	4	276	27	530	4.0	5
CL	43.08	46.07	2.99								
23037	46.07	46.23	0.16		165	4	223	40	500	8.0	4

1.03% Sn
0.437 oz. Ag
6.02 m

1.94% Sn
0.440 oz. Ag
1.66 m

0.80% Sn
0.337 oz. Ag
8.21 m

0.16% Sn
0.064 oz. Ag
2.19 m

CORTIN JOINT VENTURE

HOLE : EPD - 79 - 01 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 3

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES : (in p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag	Mo				
CL	46.23	49.88	3.65												
23038	49.88	51.94	2.06		70	4	215	11	435	2.6	2				
23040	51.94	52.14	0.20		57	6	5850	20	4150	21.5	4				
23041	52.14	52.67	0.53		680	4	251	10	370	1.0	3				
CL	52.67	54.24	1.57												
23042	54.24	54.45	0.21		20	3	415	10	435	0.2	2				
23043	54.45	54.75	0.30		21	4	131	8	310	0.3	2				
CL	54.75	55.11	0.36												
23044	55.11	56.00	0.89		20	4	178	10	280	0.6	2				
CL	56.00	58.62	2.62												
23045	58.62	58.82	0.20		26	4	200	12	455	5.7	1				
CL	58.82	60.89	2.07												
23046	60.89	61.39	0.50		15	4	66	31	355	0.5	6				
23047	61.39	61.49	0.10		15	3	21	10	805	0.5	3				
23048	61.49	61.59	0.10		33	12	110	52	725	1.5	4				
23049	61.59	62.19	0.60		23	4	60	20	285	0.5	2				
CL	62.19	62.28	0.09												
23050	62.28	63.09	0.81		57	4	58	16	370	0.3	3				
23051	63.09	63.29	0.20		22	14	57	10	560	0.5	2				
CL	63.29	64.92	1.63												
23052	64.92	65.82	0.90		45	4	41	12	155	0.5	4				
23053	65.82	65.92	0.10		12	4	40	10	195	0.5	1				
CL	65.92	66.14	0.22												
23054	66.14	66.34	0.20		15	4	28	8	190	0.6	2				
23055	66.34	66.44	0.10		7	4	36	12	375	0.5	1				
CL	66.44	67.67	1.23												

CORTIN JOINT VENTURE

HOLE : EPD - 79 - 01

EPD CLAIMS - RESULTS OF 1979 DRILLING

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag	Mo				
23056	67.67	68.27	0.60		15	3	95	23	555	1.0	1				
CL	68.27	69.19	0.92												
23057	69.19	70.10	0.91		187	2	68	8	490	0.5	2				
23058	70.10	71.10	1.00		325	4	135	44	510	1.1	1				
23059	71.10	72.00	0.90		500	4	150	15	535	0.9	1				
23060	72.00	72.50	0.50		33	4	241	23	520	0.7	2				
23061	72.50	72.70	0.20		10	4	375	25	310	0.5	2				
CL	72.70	73.05	0.35												
23062	73.05	74.05	1.00		118	4	555	70	280	3.5	2				
23063	74.05	75.12	1.07		152	4	435	32	720	2.5	3				
CL	75.12	75.29	0.17												
23064	75.29	75.64	0.35		16	4	105	20	815	1.0	3				
23065	75.64	75.69	0.05		19	6	115	30	800	2.9	4				
CL	75.69	76.22	0.53												
23066	76.22	76.77	0.55		32	5	86	39	1170	1.2	2				
CL	76.77	77.90	1.13												
23067	77.90	78.50	0.60		18	4	60	26	680	1.6	2				
23068	78.50	78.80	0.30		17	5	118	131	480	4.7	2				
23069	78.80	79.20	0.40		16	4	43	37	700	0.7	1				
23070	79.20	79.30	0.10		29	3	35	22	255	1.5	5				
23071	79.30	80.72	1.42		24	4	90	31	975	1.2	2				
23072	80.72	81.39	0.67		28	3	36	22	435	0.5	3				
23073	81.39	81.79	0.40		530	3	1485	124	600	16.5	1				
CL	81.79	82.91	1.12												
23074	82.91	83.21	0.30		11	6	57	46	555	2.6	1				
CL	83.21	83.39	0.18												

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 01 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 5

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.) Sn	W	Cu	Pb	Zn	Ag	Mo
23075	83.39	83.64	0.25		10	5	23	10	500	0.8	2
CL	83.64	84.49	0.85								
23076	84.49	84.79	0.30		8	5	46	8	350	0.7	2
CL	84.79	85.95	1.16								
23077	85.95	86.15	0.20		6	4	122	6	225	1.4	2
23078	86.15	86.45	0.30		33	3	270	14	730	1.0	3
CL	86.45	87.48	1.03								
23079	87.48	87.98	0.50		11	3	134	9	250	0.9	4
CL	87.98	88.14	0.16								
23080	88.14	89.29	1.15		6	4	352	30	315	1.5	3
23081	89.29	89.94	0.65		55	8	1225	27	385	25.0	2
23082	89.94	90.14	0.20		53	10	1000	134	550	22.5	4
23083	90.14	90.90	0.76		116	10	2250	51	410	8.5	2
	END OF HOLE										

CCH RESOURCES LTD.

DIAMOND DRILL LOG

VENTURE CORTIN

PROJECT

PROPERTY EPD

LOCATION

GRID

Location 100 + 30.3N

Section 102 + 22.8W

Bearing[1] 353 True

Dip -47

Length 50.31 m

horizontal 34.31

TESTS

TROPARI

Depth	Mag Brg	Corr Brg	Dip	Dip[2]
30.48 m			53	45
50.29 m			56	48

ACID

SURVEY

Latitude

Departure

Elevation

Bearing

Dip

PHYSICAL DATA

Core Size AQ to end , to

Date Started August 21, 1979

Date Completed August 23, 1979

Casing Pulled yes

Core Recovery 74%

Cemented no

Core Location: In storage at Oliver Creek camp site 115-P-15

Logged by A. Woodsend

Contractor Canico

NOTES: 1) Give reference - Magnetic, Grid, True

2) Corrected dip.

DDH No. EPD 79-02

From	To	Rock Name	Description	CA	From	To	Sample
0	5.02	Casing	Through overburden				
5.02	6.32	Quartzite	Well foliated, occasional more chloritic bands, little introduced chlorite except in tension gashes/joints that are chlorite-limonite filled.		5.02	6.32	23084
6.32	6.64	Chlorite Breccia	70% chlor. qtz. fragments, vuggy limonitic patches/veins	fol 75° fract 20°	6.32	6.64	23085
6.64	6.71	CL					
6.71	7.01	Chlorite Breccia	As above, one 0.01 m section = qtz. chlor. breccia 75% quartz fragments		6.71	7.01	23086
7.01	7.59	Quartzite	As in first section		7.01	7.59	23087
7.59	7.89	Chlorite Breccia Quartz Breccia	Very broken, some chloritite		7.59	7.89	23088
7.89	8.69	Chlorite Breccia + Chloritite			7.89	8.69	23089
8.69	8.89	CL					
8.89	9.19	Chlorite Breccia	Very broken, some chloritite with a possible band of moderately altered quartzite in centre.		8.89	9.19	23090
9.19	9.75	CL					
9.75	9.93	Quartzite sheared	Little chloritisation , incipient brecciation		9.75	9.93	23091
9.93	10.54	Chloritite, Chlorite breccia + quartz breccia	Dominantly chlor. breccia, limonitic vugs		9.93	10.54	23092
10.54	11.12	CL					

DDH No. EPD 79-02

From	To	Rock Name	Description	CA	From	To	Sample
11.12	11.78	Chloritite , Chlorite Breccia	With one 0.01m band qtz.-breccia, probable viz. cass. in chlorite breccia fol.	15°	11.12	11.78	23093
11.78	11.96	CL					
11.96	12.13	Chlorite quartz ser. schist	Intensely chloritised and minor chloritised chloritic quartzite becoming brecciated in places fol.	30-35°	11.96	12.13	23094
12.13	13.51	Quartzite	Slightly fractured, more chloritic for 0.1 m in centre fol.	20°	12.13	13.13	23095
13.51	13.56	Chloritite	?viz. cassiterite, contact sharp, parallel to foliation fol.	23°	13.13	13.51	23096
13.56	14.02	CL	Except for a few pebbles (chlor.) quartzite		13.51	13.56	23097
14.02	14.43	(chlorite) quartzite	Broken section dominantly (chlor.) quartzite lenses chlor. schist fol.	25°	14.02	14.43	23098
14.43	14.83	CL					
14.83	14.95	Chlorite Breccia	Chloritite breccia		14.83	14.95	23099
14.95	15.25	Chlorite schist	V. chloritic chloritised schist limonitic veins fol.	15°	14.95	15.25	23100T
15.25	15.45	Chlorite breccia	Rusty vuggy chloritic breccia, some qtz. fragments limonite + calcite		15.25	15.45	23101
15.45	15.83	Chlorite schist	Highly chloritised chloritic schist fol.	20°	15.45	15.83	23102
15.83	16.46	CL			16.46	17.46	23103
16.46	17.75	Chlorite schist	Highly chloritised chloritic schist, foliation preserved though insipient brecciation in places fol.	15°	17.46	17.75	23104
17.75	17.95	Chlorite breccia	Vuggy rusty chloritic breccia, some qtz. fragments Limonite, cassiterite ?		17.75	17.95	23105

From	To	Rock Name	Description	CA	From	To	Sample
17.95	18.05	Gouge zone breccia	Rusty breccia, sheared fault zone, appears to dip steeper than schistosity, but same direction		17.95	18.05	23106
18.05	18.30	Breccia quartzite (chlorite)	Brecciated (chloritised) quartzite with one narrow < 0.01m chlor. schist band. All parallels schistosity	Fol 20°	18.05	18.30	23107
18.30	18.70	Chlorite Breccia	Chlorite breccia, some foliation preserved fol.	15°	18.30	18.70	23108
18.70	18.90	CL					
18.90	19.30	Chlorite Breccia	V. broken, angular quartz fragments 20%, chloritic matrix 80% fractures limonite + Mn coated		18.90	19.30	23109T
19.30	19.50	Quartz (chlorite) breccia	Quartz breccia, 90% quartz fragments 10% chloritic matrix		19.30	19.50	23110T
19.50	19.70	Chlorite Breccia	Chlorite breccia as before, fragments aligned suggestive of foliation	fol 40°	19.50	19.70	23111
19.70	20.02	CL					
20.02	20.32	Chlorite Breccia	As before, possible foliation	24°	20.02	20.32	23112
20.32	20.42	(Brecciated) (chlorite) quartzite	Chloritic quartzite foliated insipient brecciation fol.	50°	20.32	20.42	23113
20.42	20.75	CL					
20.75	20.85	Brecciated quartzite	Quartz breccia 10% chlorite		20.75	20.85	23114
20.85	21.95	CL					
21.95	22.10	Quartzite breccia chlorite	Quartz breccia with 30% chlorite. No viz. structure		21.95	22.10	23115

From	To	Rock Name	Description	CA	From	To	Sample
22.10	22.50	Chlorite Breccia	75% chlorite, 25% quartzite v. broken		22.10	22.50	23116T
22.50	22.81	CL					
22.81	23.27	CL			23.27	23.37	23117T
23.27	23.37	Chlorite breccia	As above		23.37	23.47	23118
23.37	23.47	Chloritised Qtz. breccia	Shear or fault zone, vuggy, limonitic	contact 35			
23.47	25.98	Chlorite breccia	V. broken, 80% chlorite, 20% Qtz., limonite on fractures, poss. foliation	fol. 25°	23.47 24.47 25.47	24.47 25.47 25.98	23119 23120 23121T
25.98	26.52	CL					
26.52	26.53	Qtz. breccia	Two pieces only, Qtz. 70%, chlorite 20%,limonite 10%		26.52	26.53	23122
26.53	26.87	CL					
26.87	26.97	Qtz. breccia	No viz min. Qtz. 80%, chlorite 10%, limonite 10%		26.87	26.97	23123
26.97	27.50	CL					
27.50	27.60	(Chloritised) Qtz. breccia	75% Qtz, 20% chlorite, 5% limonite, v. broken, cpy + mal specks and coatings		27.50	27.60	23124
27.60	28.04	CL					
28.04	28.44	Qtz. breccia	Very broken, 75% Qtz., mal + Az on fract. planes, no viz. structure, some chlorite breccia selvages, but 90% Qtz. breccia		28.04	28.44	23125
28.44	29.26	CL					

From	To	Rock Name	Description	CA	From	To	Sample No.
29.26	29.36	Qtz. breccia	As above, Mal + Az on fractures, some sign of chlorite breccia at end in ground core		29.26	29.36	23126
29.36	30.41	CL					
30.41	30.51	Chloritised Qtz. breccia	Probably Qtz. breccia as above, but 2-3 fragments chloritised Qtz. breccia. One fragment Q.v.		30.41	30.51	23127
30.51	31.09	CL					
31.09	31.24	Qtz. breccia + chlor. breccia	V. broken, probably 50% Qtz. breccia, 50% chlorite breccia, maybe some chloritised chlorite schist.		31.09	31.24	23128
31.24	32.33	CL					
32.33	32.39	Qtz. breccia	Qtz. 90%, chlorite 10%		32.33	32.39	23129
32.39	33.17	Chlorite breccia	Foliation still viz., 75% chlorite		32.39	33.17	23130
33.17	33.18	Chlor. schist + chloritic Qtzite	50% chloritic chlorite schist, 50% chloritised Qtzite.	fol. 38°	33.17	33.18	23131
33.18	35.74	Qtz. breccia	60% Qtz., 40% chlorite, post breccia fractures carry carbonate + chlorite	fol. 45° fract-80-90°	33.18 34.18 35.18	34.18 35.18 35.74	23132 23133 23134
35.74	36.88	Qtz. breccia + chlor. schist	Dominantly Qtz. breccia with sections chloritised chloritic schist	fol. 45° fol. 25°	35.74	36.88	23135

From	To	Rock Name	Description	CA	From	To	Sample No.
36.88	37.78	(Chlor) Qtzite	Well foliated chloritised Qtzite, occasional vuggy open fractures with Qtz. xstals		36.88	37.78	23136
37.78	38.10	CL					
38.10	39.71	(Chlor) Qtzite	As above, partly brecciated in places	fol. 25°	38.10 39.10	39.10 39.71	23137 23138
39.71	40.69	Qtz. breccia	Qtz 75%, brecciated partly, some totally vuggy fractures carbonate filled or chlorite filled, v. occasional specks Py + Po.		39.71	40.69	23139
40.69	41.09	Qtz. Chlor. breccia	60% Qtz., 40% chlorite, well brecciated, some Qv.		40.69	41.09	23140
41.09	41.30	CL					
41.30	43.28	(brecciated) Qtzite	Insipient brecciation, well fractured, foliation still viz., occasional open veins parallel to foliation with Qtz +Mn ?	fol. 50°	41.30 42.30	42.30 43.28	23141 23142
43.28	44.08	Chloritised schist	Well chloritised chloritic schist, grey specks unknown min., some patches breccia with limonitic vugs, occasional Qv.	fol. 25°	43.28	44.08	23143
44.08	45.11	(Chloritised) Qtzite	Qtzite with minor chloritisation, well fractured or sheared, occasional insipient brecciation.	fol. 30°	44.08	45.11	23144
45.11	47.62	(Brecciated) (Chloritised) Qtzite	Qtzite, moderately chloritised, moderately brecciated, in places well brecciated. Fractures filled with chlorite-sericite-carbonate.	fol. 20° fract. variable	45.11 46.11 47.11	46.11 47.11 47.62	23145 23146 23147
47.62	49.38	Chloritised Chloritic schist	Thoroughly chloritised chloritic schist, foliation still clear, pale speckled min, some brecciation at base.	fol. 5-10°	47.62 48.62	48.62 49.38	23148 23149

From	To	Rock Name	Description	CA	From	To	Sample No.
49.38	49.80	(Chloritised) Qtzite	Well foliated, 75% Qtz.	fol. 15°	49.38	49.80	23150
49.80	50.31	CL					
			HOLE ENDS 50.31 m.				

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 02

EPD CLAIMS - RESULTS OF 1979 DRILLING

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.) Sn	W	Cu	Pb	Zn	Ag	
23084	5.02	6.32	1.30		180	5	200	58	560	4.7	
23085	6.32	6.64	0.32	0.22	1700	8	735	40	1400	6.7	0.249% Sn 0.225 oz. Ag 0.69 m (incl. 0.07m CL)
CL	6.64	6.71	0.07								
23086	6.71	7.01	0.30	0.28	1920	6	680	37	1325	7.5	
23087	7.01	7.59	0.58		23	3	133	43	450	2.0	
23088	7.59	7.89	0.30		50	9	230	63	770	4.2	
23089	7.89	8.69	0.80		105	8	250	85	640	6.4	
CL	8.69	8.89	0.20								
23090	8.89	9.19	0.30		140	20	325	278	790	9.2	
CL	9.19	9.75	0.56								
23091	9.75	9.93	0.18		92	7	112	50	380	3.3	
23092	9.93	10.54	0.61		135	12	320	510	840	16.3	
CL	10.54	11.12	0.58								
23093	11.12	11.78	0.66		120	8	500	1045	800	18.1	0.31% Sn 0.649 oz. Ag 10.39 m (incl. 2.77 m CL)
CL	11.78	11.96	0.18								
23094	11.96	12.13	0.17		560	13	300	43	660	4.2	
23095	12.13	13.13	1.00		33	5	100	23	355	1.4	
23096	13.13	13.51	0.38		28	5	128	23	490	3.1	
23097	13.51	13.56	0.05	1.06	G2000	6	540	35	1225	45.0	
CL	13.56	14.02	0.46								
23098	14.02	14.43	0.41		62	5	380	20	885	3.8	
CL	14.43	14.83	0.40								
23099	14.83	14.95	0.12		820	13	2375	20	910	65.0	
23100	14.95	15.25	0.30	0.27	G2000	10	480	13	530	5.4	
23101	15.25	15.45	0.20		29	17	975	30	1150	3.2	
23102	15.45	15.83	0.38	0.41	G2000	12	1475	40	1200	2.7	

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 02

EPD CLAIMS - RESULTS OF 1979 DRILLING

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.) Sn	W	Cu	Pb	Zn	Ag
CL	15.83	16.46	0.63							
23103	16.46	17.46	1.00		1050	11	550	40	800	15.0
23104	17.46	17.75	0.29		46	8	267	23	550	5.7
23105	17.75	17.95	0.20	0.29	G2000	16	1275	92	1350	5.5
23106	17.95	18.05	0.10		110	13	4225	362	2400	65.0
23107	18.05	18.30	0.25		55	8	415	81	655	7.5
23108	18.30	18.70	0.40	1.14	G2000	28	1350	200	1475	23.2
CL	18.70	18.90	0.20							
23109	18.90	19.30	0.40	1.02	G2000	12	1700	500	2500	61.0
23110	19.30	19.50	0.20	4.76	G2000	4	950	322	1825	48.0
23111	19.50	19.70	0.20	0.15	1240	13	3100	1970	1670	181.37
CL	19.70	20.02	0.32							
23112	20.02	20.32	0.30	0.37	G2000	13	2625	465	2950	39.0
23113	20.32	20.42	0.10		110	8	500	70	735	3.9
CL	20.42	20.75	0.33							
23114	20.75	20.85	0.10		42	6	120	14	190	0.6
CL	20.85	21.95	1.10							
23115	21.95	22.10	0.15		15	14	122	10	185	0.5
23116	22.10	22.50	0.40	0.29	G2000	10	240	13	590	0.7
CL	22.50	23.27	0.77							
23117	23.27	23.37	0.10	0.46	G2000	12	655	33	1125	5.8
23118	23.37	23.47	0.10		520	10	7100	33	4260	13.8
23119	23.47	24.47	1.00		750	32	1550	21	1850	6.8
23120	24.47	25.47	1.00		700	40	2985	96	2175	48.0
23121	25.47	25.98	0.51	0.41	G2000	26	1450	20	2425	11.4
CL	25.98	26.52	0.54							

0.14% Sn
0.418 oz. Ag
3.12 m (incl. 0.63m CL)

0.53% Sn
0.927 oz. Ag
5.49 m (incl. 1.15 m CL)

1.06% Sn
1.672 oz. Ag
2.37 m (incl. 0.52 m CL)

CORTIN JOINT VENTURE

HOLE : EPD - 79 - 02

EPD CLAIMS - RESULTS OF 1979 DRILLING

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.) Sn	W	Cu	Pb	Zn	Ag
23122	26.52	26.53	0.01	0.15	1460	12	1300	240	910	9.9
CL	26.53	26.87	0.34							
23123	26.87	26.97	0.10		240	4	6950	420	2500	50.0
CL	26.97	27.50	0.53							
23124	27.50	27.60	0.10		61	4	600	32	290	5.7
CL	27.60	28.04	0.44							
23125	28.04	28.44	0.40		36	3	665	45	285	4.5
CL	28.44	29.26	0.82							
23126	29.26	29.36	0.10		25	4	1165	58	260	5.8
CL	29.36	30.41	1.05							
23127	30.41	30.51	0.10		10	4	170	60	685	1.4
CL	30.51	31.09	0.58							
23128	31.09	31.24	0.15		5	4	45	23	300	0.7
CL	31.24	32.33	1.09							
23129	32.33	32.39	0.06		13	4	13	30	290	0.5
23130	32.39	33.17	0.78		20	5	13	145	720	5.6
23131	33.17	33.18	0.01		190	6	60	307	850	12.0
23132	33.18	34.18	1.00		310	7	157	410	610	27.0
23133	34.18	35.18	1.00		160	6	188	153	680	7.2
23134	35.18	35.74	0.56		860	5	109	60	445	2.3
23135	35.74	36.88	1.14		115	7	41	50	355	4.1
23136	36.88	37.78	0.90		5	6	52	34	380	1.0
CL	37.78	38.10	0.32							
23137	38.10	39.10	1.00		10	4	58	56	525	1.3
23138	39.10	39.71	0.61		30	4	60	72	725	1.6
12139	39.71	40.69	0.98		820	5	89	200	375	6,3

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 02

EPD CLAIMS - RESULTS OF 1979 DRILLING

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)					
					Sn	W	Cu	Pb	Zn	Ag
23140	40.69	41.09	0.40	1.18	G2000	11	60	20	514	0.7
CL	41.09	41.30	0.21							
23141	41.30	42.30	1.00		10	4	43	4	475	0.2
23142	42.30	43.28	0.98		5	4	46	7	487	0.2
23143	43.28	44.08	0.80		L5	6	23	3	519	0.3
23144	44.08	45.11	1.03		35	5	23	3	450	0.3
23145	45.11	46.11	1.00	1.16	G2000	9	90	8	401	0.5
23146	46.11	47.11	1.00		950	8	100	38	375	1.9
23147	47.11	47.62	0.51		10	4	97	9	418	0.3
23148	47.62	48.62	1.00		8	4	123	10	475	0.2
23149	48.62	49.38	0.76		5	4	133	5	249	1.5
23150	49.38	49.80	0.42		58	4	90	7	359	0.2
CL	49.80	50.31	0.51							
					HOLE ENDS 50.31 m.					

CCH RESOURCES LTD.

DIAMOND DRILL LOG

VENTURE CORTIN

PROJECT

PROPERTY EPD

LOCATION

GRID

Location 99 + 82.0S

Section 102 + 19.2W

Bearing 347 True

Dip -45.5

Length 92.05 m

hamada 64.5

TESTS

TROPARI

Depth	Mag Brg	Corr Brg	Dip
30.5 m			58
60.96m			52
91.44m			60

ACID

Dip²
50
44
52

SURVEY

Latitude

Departure

Elevation

Bearing

Dip

PHYSICAL DATA

Core Size AQ to end , to

Date Started August 24, 1979

Date Completed August 30, 1979

Casing Pulled yes

Core Recovery 82%

Cemented no

Core Location: In storage at Oliver Creek camp site 115-P-15

NOTES: 1) Give reference - Magnetic, Grid, True

2) Corrected dip.

Logged by A. Woodsend

Contractor Canico

DDH No. EPD 79-03

CCH RESOURCES LTD. - DIAMOND DRILL LOG

From	To	Rock Name	Description	CA	From	To	Sample No.
0	7.22	Overburden					
7.22	7.92	Quartz breccia	slightly brecciated in places quartzite, chloritic foliation well viz, one chloritic veinlet + py	fol 15°	7.22	7.92	23151
7.92	8.23	CL					
8.23	9.19	Quartzite (brecciated)	As above		8.23	9.19	23152
9.19	9.34	CL					
9.34	9.84	Quartzite-brecciated	Qtz. 80%, chlor. 20%, late stage chloritic X cut veinlets, well healed, few open spaces		9.34	9.84	23153
9.84	10.24	CL					
10.24	10.34	Quartzite-brecciated	As above		10.24	10.34	23154
10.34	10.59	CL					
10.59	10.89	Quartzite-brecciated	As above		10.59	10.89	23155
10.89	10.97	CL					
10.97	11.07	Quartzite-brecciated	As above with 10% sericite lower contact parallel to foliation = fol. 25°		10.97	11.07	23156
11.07	11.27	Chloritised schist	Felty chloritised chloritic schist	fol 25°	11.07	11.27	23157
11.27	11.35	Quartzite fractured	V. slight incipient brecciation of chloritic quartzite		11.27	11.35	23158

DDH No. EPD 79-03

From	To	Rock Name	Description	CA	From	To	Sample N
11.35	11.59	Quartzite brecciated	Rusty-stained quartz breccia, v. little foliation viz., completely healed, < 10% chlor., clots po.		11.35	11.59	23159
11.59	11.74	Quartzite brecciated	No longer rusty but fragmented fractured quartz breccia		11.59	11.74	23160
11.74	11.81	CL					
11.81	11.91	Quartz breccia, chloritised	A few fragments chloritic quartz breccia ± 20% chlorite		11.81	11.91	23161
11.91	12.26	CL					
12.26	12.40	Quartz breccia, chloritised	As above		12.26	12.40	23162
12.40	12.50	CL					
12.50	12.65	Quartz breccia, chloritised	As above		12.50	12.65	23163
12.65	12.80	CL					
12.80	12.90	"?Greenstone" chloritised	Highly chloritised andesitic "greenstone" with ± 1% cpy contacts ground-massive-no fractures.		12.80	12.90	23164
12.90	12.96	CL					
12.96	13.16	Chloritised schist with, chloritised quartz breccia	V. broken fragments of chloritised chloritic schist with chloritised quartz breccia - some rusty chloritic X-cutting veinlets		12.96	13.16	23165
13.16	13.41	CL					

From	To	Rock Name	Description	CA	From	To	Sample N
13.41	14.31	Quartzite (brecciated) chloritised	Partly brecciated sericitic chloritic quartzite, foliation strong, v. little fracturing. V Chloritic bands in places, rare introduced felty chloritic veinlets		13.41	14.31	23166
14.31	14.63	CL					
14.63	15.13	Quartzite (brecciated) chloritised	As above		14.63	15.13	23167
15.13	15.24	CL					
15.24	15.69	Chloritised quartz breccia	Well healed brecciated quartzite 60% quartz, 40% chlorite, faint fol. viz. but more brecciated than last section, some sericite, almost no fracturing	fol 15°	15.24	15.69	23168
15.69	15.94	?chloritised "greenstone"	Probably "greenstone", calcite-filled fractures,	fol 15°	15.69	15.94	23169
15.94	16.08	CL					
16.08	16.46	Chloritised breccia	Very brecciated 90% chlorite with rusty qtz.-calcite fractures and some sections that still look like "greenstone"		16.08	16.46	23170
16.46	16.71	CL					
16.71	16.91	Chloritised breccia	As above		16.71	16.91	23171
16.91	17.08	Chloritised quartz breccia	Partly brecciated quartzite with 20% chlorite, probably metamorphic, still some rusty qtz.-calcite fractures		16.91	17.08	23172
17.08	18.05	CL					
18.05	18.45	Quartzite	Fractured chloritic quartzite- faint signs of incipient brecciation, otherwise boring		18.05	18.45	23173

From	To	Rock Name	Description	CA	From	To	Sample No
18.45	19.33	CL					
19.33	19.36	Quartzite	As above		19.33	19.36	23174
					19.56	19.86	
19.36	19.56	CL			20.30	20.80	
19.56	19.86	Quartzite	As above				
19.86	20.30	CL					
20.30	20.80	Quartzite	As above				
20.80	22.13	(Chloritised) sericite schist	Partly chloritised, foliation still well viz., qtz. frags. suggest ?tuff, fairly strong local variations in foliation angle, generally v. little fracturing, or introduced chlorite, 20% qtz.	fol 25°	20.80	21.80	23175
					21.80	22.13	23176
22.13	23.97	Quartzite	Generally >85% quartz, occasionally more schistose 30-35% chlor.-sericite, no fracturing, little viz. introduced chlorite	fol 5-30°	22.13	23.13	23177
23.97	24.16	CL					
24.16	28.34	(Chloritised) schist with (chloritised) quartzite	Dominantly slightly chloritised, chloritic schist with subdominant interbeds of (chloritic) quartzite some small sections show incipient brecciation, and occasional introduced chloritic veinlets		23.13	23.97	23178
				fol 18°	24.16	25.16	23179
				fol 35°	25.16	26.16	23180
					26.16	27.16	23181
					27.16	28.34	23182

From	To	Rock Name	Description	CA	From	To	Sample
28.34	29.25	Chloritic schist (brecciated) fractured	Heavily chloritised quartzite schist 80% chlor, up to 4% po + mag + minor cpy in blebs and veinlets, brecciated at base of section with narrow QV's and calcite	fol 25°	28.34	29.25	23183
29.25	29.85	Brecciated quartzite fractured, (chloritic)	Well fractured (chloritised) quartzite, fractures limonitic	fol 30°	29.25	29.85	23184
29.85	30.10	QV	Parallel to foliation, brownish, fractured, limonite-coated schist fragments		29.85	30.10	23185
30.10	30.60	(Brecciated) chloritised quartzite	Incip. brecciation, strong chloritisation, some sections 30-40% chlorite. Foliation still viz	fol 30°	30.10	30.60	23186
30.60	30.86	CL					
30.86	31.66	Chloritised brecciated quartzite	Strong brecciation of above, minor py, fractures limonite-stained, ?Mn?		30.86	31.66	23187
31.66	31.77	CL					
31.77	32.25	Brecciated sheared chloritised quartzitic schist	Strongly sheared quartzitic chloritised chlorite schist, calcite veins, zones heavy brecciation, mud seam at last 0.01 m of sect.		31.77	32.25	23188
32.25	32.56	CL					
32.56	33.36	Quartzite, brecciated fractured	fractured, partly brecciated quartzite, limonitic fract.	fol 10°	32.56	33.36	23189
33.36	33.45	CL					

From	To	Rock Name	Description	CA	From	To	Sample No
3.45	33.85	Quartzite fractured	Fractured chloritic quartzite	fract 85-90°	33.45	33.85	23190
3.85	34.00	Mud Seam	Grey- probably chloritic quartzite gouge zone		33.85	34.00	23191
4.00	34.14	CL					
4.14	36.12	Quartzite (chloritised)	Partly chloritised chloritic quartzite, no fractures in top 3/4 but last 0.5m increasing fractures.	fol 20°	34.14	35.14	23192
					35.14	36.12	23193
6.12	38.50	Fractured Quartzite chloritised	(brecciated) well fractured chloritic quartzite 75% quartz some strong chloritic veinlets. Brecciation generally parallel to schistocity.	fol. 20°	36.12	36.98	23194
			fract. variable	75-80°	36.98	37.98	23195
					37.98	38.50	23196
8.50	38.65	CL					
8.65	41.90	Quartzite (fractured) (chloritised)	Chloritic quartzite 75-85% quartz, well foliated. moderately fractured in places, fractures variable, usually chloritic, chlorite sections partially chloritised.	fol 35°	38.65	39.65	23197
					39.65	40.65	23198
1.90	42.04	CL			40.65	41.90	23199
2.04	43.16	(chloritised) chlor. quartz schist	Partly chloritised chlorite schist with quartzitic sections, well foliated	fol 30°	42.04	42.54	23200
					42.54	43.16	23201
3.16	44.93	Quartzite (chloritised)	Partly brecciated chloritic quartzite partly chloritised occasional limonite-chlorite fractures though generally fairly massive	fol 15°	43.16	44.16	23202
					44.16	44.93	23203

From	To	Rock Name	Description	CA	From	To	Sample No.
44.93	47.78	Quartzite (fractured) chloritised	Chloritised, slightly fractured chloritic quartzite	fol. 05°	44.93	45.93	23204
					45.93	46.93	23205
					46.93	47.78	23206
47.78	47.98	(Brecciated) Quartzite fractured chloritised	As above, but slightly brecciated + quartz rimmed vugs, no viz. min.		47.78	47.98	23207
47.98	49.74	(chloritised) schist	Partly chloritised chloritic schist with occasional late stage chlorite veins, some QV's parallel to schistocity, v. deformed in some sections.		47.98	48.98	23208
				fol. 05°	48.98	49.74	23209
					49.74	50.24	23210
49.74	51.00	Chloritised quartzite	Well chloritised, partly brecciated quartzite, limonitic veins, some v. rusty sections. Foliation still viz	fol. 10°	50.24	51.00	23211
51.00	51.60	Quartzite chloritised	Brecciated quartzite - not v. strong brecciation-chlorite ± 20%. Some strong veins chlorite.		51.00	51.60	23212
					51.60	52.60	23213
51.60	56.20	(Chloritised) quartzite	Partially chloritised incip. brecciated quartzite, occasional limonite fractures, generally boring.		52.60	53.60	23214
					53.60	54.60	23215
				fol. 10-15°	54.60	55.60	23216
					55.60	56.20	23217
56.20	56.74	Chloritised quartzite	Chloritised chlorite/sericite quartzite - dark green ± 60% qtz., well foliated, little fracturing	fol. 15°	56.20	56.74	23218
					56.85	57.85	23219
56.74	56.85	CL					
56.85	60.91	Chloritised schist	Well chloritised chlorite-sericite schist, probably less than 40% qtz., dark green, little fracturing.	fol. 10°	57.85	58.85	23220
					58.85	59.85	23221
					59.85	60.91	23222

From	To	Rock Name	Description	CA	From	To	Sample No.
60.91	61.57	CL					
61.57	64.19	Chloritic schist	As above, some evidence for increasing chloritisation and limonite fracturing down this section.	fol. 10°	61.57 62.57 63.57	62.57 63.57 64.19	23223 23224 23225
64.19	64.95	QV	Qtz. vein with fragments chlor. schists, well fractured by chlorite-limonite. Qtz. yellowy. Contact obscure, top probably CA 0°.	fol, 0°	64.19	64.95	23226
64.95	65.25	Chloritised quartzite	Well chloritised chloritic quartzite, moderately fractured.	fract. 90°	64.95	65.25	23227
65.25	65.48	CL					
65.48	66.38	Quartzite chloritised	Brecciated chloritised chloritic quartzite, vuggy patches general mottled appearance. 80% qtz., 20% chlor. with some sericite. Post brecciation fracturing, well-developed random orientation.		65.48	66.38	23228
66.38	67.18	Quartzite chloritised (+ sch.chlor.)	Dominantly well chloritised quartzite with 30% chloritised schist, moderately fract. + chlor. + lim., well foliated, specks unidentified speckled yellowy brown mineral.	fol. 15°	66.38	67.18	23229
67.18	68.22	Quartzite breccia	Brecciated quartzite- yellowy patches chloritised quartzite remaining, 90% qtz., 10% chlor., increasingly broken to end of section where 0.01-0.05 m blebs Po are in matrix, whole sect. fract. with vuggy limonitic chloritic ?Mn.		67.18	68.22	23230
68.22	68.58	CL					
68.58	68.88	Chlorite breccia	Chlor. 80%, qtz. less than 20% + cpy blebs + specks ± 1% sulphides. V. limonitic fractures.		68.58	68.88	23231

From	To	Rock Name	Description	CA	From	To	Sample No.
68.88	69.03	Brecciated quartzite chloritised	Highly chloritised brecciated chloritic quartzite. V. broken yellow stained + limonite.		68.88	69.03	23232
69.03	69.37	CL					
69.37	69.57	Brecciated quartzite	V. broken - Greater than 80% qtz., patches dark metallic, non-magnetic mineral.		69.37 69.76	69.57 70.71	23233 23234
69.57	69.76	CL					
69.76	70.71	Brecciate quartzite	As above.		70.71	71.53	23235
70.71	72.99	Schist chloritised	Highly chloritised schist, v. contorted fol., small blebs/veins qtz., micro fractures chloritic + limonitic, some more limonitic 0.05 m sections, vuggy.		71.53 72.03	72.03 72.99	23236 23237
72.99	73.27	Brecciated quartzite	Brecciated quartzite with rusty pyrite-filled fractures and blebs chlorite.		72.99 73.35	73.27 73.55	23238 23239
73.27	73.35	CL					
73.35	73.55	Brecciated quartzite	As above.		73.55	74.55	23240
73.55	75.65	Schist chloritised	Highly chloritised mod. fract. chlorite sericite schist. Still well foliated and not v. contorted. Several sections with narrow limonitic fractures.	fol. 20°	74.55	75.65	23241
75.65	77.22	Quartzite breccia	Highly brecciated quartzite- Quite chloritic in places, 40% chlor., v. limonitic with strong late stage chlor.-limonite fractures at all angles		75.65 76.65	76.65 77.22	23242 23243

From	To	Rock Name	Description	CA	From	To	Sample No.
7.22	77.52	Chloritised schist	Highly chloritised schist - yellow brown speckle min., fol. still viz.	fol. 20°	77.22	77.52	23244
7.52	77.82	Quartzite breccia	As above		77.52	77.82	23245
7.82	78.33	CL					
8.33	78.83	Schist mud	Muddy shear zone apparently of finely comminuted chlor. sch.		78.33	78.83	23246
8.83	79.12	CL					
9.12	79.72	Brecciated quartzite + sch. mud	Quartzite, brecciated + muddy chlor. schist fragments.		79.12	79.72	23247
					80.85	81.15	23248
9.72	80.85	CL					
0.85	81.15	Brecciated quartzite/ brecciated schist. chlor.schist	V. broken fragments of all types.		81.15	81.45	23249
1.15	81.45	Chloritised schist	V. broken fract., highly deformed, but no viz. brecciation.		82.90	83.00	23250
1.45	82.90	CL					
2.90	83.00	Quartzite breccia	A few fragments.				
3.00	84.12	CL					

From	To	Rock Name	Description	CA	From	To	Sample No.
84.12	84.82	Quartzite breccia	V. broken, some good chloritic selvage veins. Mal. stains on fract.		84.12	84.82	23251
84.82	85.62	CL					
85.62	86.02	Quartzite breccia	Broken, well fract. quartzite breccia 85-90% qtz. some strong chlor.-limonite veins.		85.62	86.02	23252
86.02	86.23	CL					
86.23	86.43	Quartzite breccia	Becoming even more broken.		86.23	86.43	23253
86.43	86.84	CL					
86.84	87.24	?Greenstone	Dark green chloritised greenstone andesitic comp. uniform except for finer-grained margin, calcite veinlets at random angles, pyrite blebs & veinlets.		86.84	87.24	23254
87.24	87.84	CL					
87.84	92.05	?Greenstone	As above		87.84	88.84	23255
					88.84	89.84	23256
					89.84	90.84	23257
					90.84	92.05	23258
			92.05 E N D				

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 03

EPD CLAIMS - RESULTS OF 1979 DRILLING

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag					
23151	7.22	7.92	0.70		55	6	100	13	705	0.8					
CL	7.92	8.23	0.31												
23152	8.23	9.19	0.96		5	45	19	30	905	0.7					
CL	9.19	9.34	0.15												
23153	9.34	9.84	0.50		8	4	55	10	1995	0.2					
CL	9.84	10.24	0.40												
23154	10.24	10.34	0.10		5	L2	40	10	585	0.7					
CL	10.34	10.59	0.25												
23155	10.59	10.89	0.30		13	2	49	123	550	1.0					
CL	10.89	10.97	0.08												
23156	10.97	11.07	0.10		10	4	20	190	525	0.3					
23157	11.07	11.27	0.20		10	11	40	117	750	0.8					
23158	11.27	11.35	0.08		10	L2	32	7	1250	0.3					
23159	11.35	11.59	0.24		12	2	199	72	675	1.7					
23160	11.59	11.74	0.15		10	4	38	130	448	0.3					
CL	11.74	11.81	0.07												
23161	11.81	11.91	0.10		15	4	14	10	1995	ND					
CL	11.91	12.26	0.35												
23162	12.26	12.40	0.14		10	2	6	10	1340	0.2					
CL	12.40	12.50	0.10												
23163	12.50	12.65	0.15		5	L2	9	ND	937	0.3					
CL	12.65	12.80	0.15												
23164	12.80	12.90	0.10	1.74	G2000	14	1000	233	1405	8.7					
CL	12.90	12.96	0.06												
23165	12.96	13.16	0.20		370	5	179	170	8450	2.0					
CL	13.16	13.41	0.25												

CORTIN JOINT VENTURE

HOLE : EPD - 79 - 03 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 2

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (In p.p.m.) Sn	W	Cu	Pb	Zn	Ag
23166	13.41	14.31	0.90		40	L2	35	10	575	0.3
CL	14.31	14.63	0.32							
23167	14.63	15.13	0.50		18	2	57	10	460	0.2
CL	15.13	15.24	0.11							
23168	15.24	15.69	0.45		10	2	20	10	500	0.1
23169	15.69	15.94	0.25		460	9	11	9	250	ND
CL	15.94	16.08	0.14							
23170	16.08	16.46	0.38	0.85	G2000	140	105	11	368	0.8
CL	16.46	16.71	0.25							
23171	16.71	16.91	0.20		520	6	84	10	350	1.0
23172	16.91	17.08	0.17		43	L2	20	15	525	0.7
CL	17.08	18.05	0.97							
23173	18.05	18.45	0.40		10	12	53	10	225	0.6
CL	18.45	19.33	0.88							
23174	19.33	19.36	0.03							
CL	19.36	19.56	0.20							
23174	19.56	19.86	0.30		5	L2	27	40	423	0.5
CL	19.86	20.30	0.44							
23174	20.30	20.80	0.50							
23175	20.80	21.80	1.00		7	3	30	40	470	0.5
23176	21.80	22.13	0.33		8	3	30	87	780	0.6
23177	22.13	23.13	1.00		5	4	17	9	325	0.2
23178	23.13	23.97	0.84		5	2	17	90	300	0.2
CL	23.97	24.16	0.19							
23179	24.16	25.16	1.00		L5	L2	31	70	961	0.3
23180	25.16	26.16	1.00		218	2	79	30	625	0.8

CORTIN JOINT VENTURE

HOLE : EPD - 79 - 03 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 3

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)									
					Sn	W	Cu	Pb	Zn	Ag				
23181	26.16	27.16	1.00		L5	2	56	30	675	0.5				
23182	27.16	28.34	1.18		150	3	35	47	1125	0.6				
23183	28.34	29.25	0.91		830	19	703	310	18500	24.7				
23184	29.25	29.85	0.60		45	4	47	79	1062	2.3				
23185	29.85	30.10	0.25		28	3	99	330	607	19.0				
23186	30.10	30.60	0.50		15	3	56	57	225	1.8				
CL	30.60	30.86	0.26											
23187	30.86	31.66	0.80		10	2	156	170	1632	6.8				
CL	31.66	31.77	0.11											
23188	31.77	32.25	0.48		40	6	155	20	1832	0.8				
CL	32.25	32.56	0.31											
23189	32.56	33.36	0.80		15	4	90	40	161	1.5				
CL	33.36	33.45	0.09											
23190	33.45	33.85	0.40		5	3	60	21	1095	0.3				
23191	33.85	34.00	0.15		15	4	88	26	400	0.6				
CL	34.00	34.14	0.14											
23192	34.14	35.14	1.00		5	L2	47	27	450	0.3				
23193	35.14	36.12	0.98		7	L2	38	15	275	0.6				
23194	36.12	36.98	0.86		5	L2	89	38	325	2.2				
23195	36.98	37.98	1.00		5	3	70	15	400	2.6				
23196	37.98	38.50	0.52		10	L2	51	20	450	0.5				
CL	38.50	38.65	0.15											
23197	38.65	39.65	1.00		10	L2	77	30	475	0.7				
23198	39.65	40.65	1.00		12	L2	52	27	562	0.8				
23199	40.65	41.90	1.25		6	30	158	41	675	0.8				
CL	41.90	42.04	0.14											

CORTIN JOINT VENTURE

HOLE : EPD - 79 - 03 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 4

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.) Sn	W	Cu	Pb.	Zn	Ag
23200	42.04	42.54	0.50		5	2	62	20	400	2.3
23201	42.54	43.16	0.62		75	4	110	118	750	4.9
23202	43.16	44.16	1.00		10	L2	221	50	1565	2.1
23203	44.16	44.93	0.77		L5	L2	80	100	259	1.3
23204	44.93	45.93	1.00		10	L2	68	120	375	0.6
23205	45.93	46.93	1.00		5	L2	40	20	250	1.0
23206	46.93	47.78	0.85		10	6	78	41	325	1.6
23207	47.78	47.98	0.20		15	3	176	15	375	2.6
23208	47.98	48.98	1.00		10	2	153	10	190	1.2
23209	48.98	49.74	0.76		10	L2	34	8	175	1.2
23210	49.74	50.24	0.50		10	3	70	10	200	0.7
23211	50.24	51.00	0.76		360	5	270	32	650	5.9
23212	51.00	51.60	0.60		155	2	122	19	299	3.3
23213	51.60	52.60	1.00		5	L2	48	11	120	ND
23214	52.60	53.60	1.00		8	L2	176	10	375	1.2
23215	53.60	54.60	1.00		690	4	120	10	75	3.8
23216	54.60	55.60	1.00	0.12	1110	3	95	10	250	2.7
23217	55.60	56.20	0.60		33	4	139	10	375	1.6
23218	56.20	56.74	0.54		15	3	97	10	525	1.3
CL	56.74	56.85	0.11							
23219	56.85	57.85	1.00		68	2	187	10	325	2.6
23220	57.85	58.85	1.00		55	2	231	30	500	3.1
23221	58.85	59.85	1.00		20	L2	238	11	375	1.4
23222	59.85	60.91	1.06		15	3	200	19	387	2.8
CL	60.91	61.57	0.66							
23223	61.57	62.57	1.00		80	4	180	19	226	5.8

CORTIN JOINT VENTURE

HOLE : EPD - 79 - 03 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 5

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.) Sn	W	Cu	Pb	Zn	Ag
23224	62.57	63.57	1.00		5	2	103	10	387	2.0
23225	63.57	64.19	0.62		13	2	170	12	375	1.8
23226	64.19	64.95	0.76		45	2	370	39	275	8.2
23227	64.95	65.25	0.30		95	L2	219	20	350	2.1
CL	65.25	65.48	0.23							
23228	65.48	66.38	0.90		10	L2	280	31	450	2.7
23229	66.38	67.18	0.80		9	L2	219	19	475	1.4
23230	67.18	68.22	1.04		330	2	1220	20	425	69.5
CL	68.22	68.58	0.36							
23231	68.58	68.88	0.30		780	6	14000	46	1250	323.4
23232	68.88	69.03	0.15		40	6	1575	60	1798	43.5
CL	69.03	69.37	0.34							
23233	69.37	69.57	0.20		150	4	480	10	165	18.0
CL	69.57	69.76	0.19							
23234	69.76	70.71	0.95		780	4	700	18	175	11.3
23235	70.71	71.53	0.82		880	4	680	27	200	23.8
23236	71.53	72.03	0.50		420	2	600	20	225	4.3
23237	72.03	72.99	0.96		60	4	230	10	283	2.8
23238	72.99	73.27	0.28		80	3	3180	20	113	10.0
CL	73.27	73.35	0.08							
23239	73.35	73.55	0.20		160	3	378	27	225	14.3
23240	73.55	74.55	1.00		8	2	238	30	475	2.3
23241	74.55	75.65	1.10		40	4	181	10	440	1.4
23242	75.65	76.65	1.00		195	6	700	23	1220	7.6
23243	76.65	77.22	0.57		18	5	153	15	375	1.8
23244	77.22	77.52	0.30		10	3	200	11	400	1.7

0.04% Sn
1.302 oz. Ag
6.37 m (incl. 0.97 m CL)

CORTIN JOINT VENTURE

HOLE : EPD - 79 - 03 EPD CLAIMS - RESULTS OF 1979 DRILLING

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (In p.p.m.) Sn	W	Cu	Pb	Zn	Ag
23245	77.52	77.82	0.30		295	4	225	10	650	1.3
CL	77.82	78.33	0.51							
23246	78.33	78.83	0.50		5	3	185	39	2265	0.6
CL	78.83	79.12	0.29							
23247	79.12	79.72	0.60		32	3	105	40	2500	1.6
CL	79.72	80.85	1.13							
23248	80.85	81.15	0.30		60	4	280	17	412	0.2
23249	81.15	81.45	0.30		10	4	112	10	366	0.6
CL	81.45	82.90	1.45							
23250	82.90	83.00	0.10		10	3	75	10	550	5.3
CL	83.00	84.12	1.12							
23251	84.12	84.82	0.70		10	4	575	65	4250	7.5
CL	84.82	85.62	0.80							
23252	85.62	86.02	0.40		175	4	1260	113	2390	28.0
CL	86.02	86.23	0.21							
23253	86.23	86.43	0.20		40	7	520	340	10000	2.5
CL	86.43	86.84	0.41							
23254	86.84	87.24	0.40		10	14	47	16	780	0.5
CL	87.24	87.84	0.60							
23255	87.84	88.84	1.00		10	3	186	29	375	1.3
23256	88.84	89.84	1.00		15	8	70	30	383	0.3
23257	89.84	90.84	1.00		10	2	25	38	481	0.7
23258	90.84	92.05	1.21		75	L2	150	222	937	5.4
					HOLE STOPS 92.05 m.					

CCH RESOURCES LTD.

DIAMOND DRILL LOG

VENTURE CORTIN

PROJECT

PROPERTY EPD

LOCATION

GRID

Location 99 + 78.8N

Section 101 + 91.1W

Bearing 347 True

Dip -46

Length 88.97 m

TESTS

TROPARI

Depth	Mag Brg	Corr Brg	Dip
30.48 m			56
60.96 m			60
88.69 m			63

ACID

Dip²
48
52
53

SURVEY

Latitude

Departure

Elevation

Bearing

Dip

PHYSICAL DATA

Core Size AQ to end , to

Date Started August 30, 1979

Date Completed September 7, 1979

Casing Pulled yes

Core Recovery 89%

Cemented no

Core Location: In storage at Oliver Creek camp site 115-P-15

Logged by D. Kennedy

Contractor Canico

NOTES: 1) Give reference - Magnetic, Grid, True

2) Corrected dip.

DDH No. EPD 79-04

CCH RESOURCES LTD. - DIAMOND DRILL LOG

From	To	Rock Name	Description	CA	From	To	Sample
0.0	7.67	Casing	Through overburden				
7.67	8.45	Quartzite	Medium grey, fine-grained, lightly chloritized foliation generally not well developed, highly broken up, a few pieces with well developed foliation at beginning of section highly chloritized, probably boulders	fol 80°	7.67	8.45	23259
8.45	8.53	Core loss					
8.53	9.10	Quartzite	Medium grey, fine-grained, highly broken up, several hematite and limonite stained fractures; occasional quartz fragments up to 2 cm., very lightly chloritized		8.53	9.10	23260
9.10	9.75	Core loss			9.75	9.85	23261
9.75	9.85	Quartzite	As above				
9.85	9.90	Core loss					
9.90	10.10	Quartzite	Medium grey, fine-grained, badly broken up, lightly chloritized, several fractures with limonite staining	65°	9.90	10.10	23262
10.10	10.24	Core loss					
10.24	10.40	Chlorite schist	Dark grey-green, fine-grained chlorite schist, contains 10% quartz as narrow stringers parallel to foliation, section badly broken up	65°	10.24	10.40	23263
10.40	10:52	Quartzite	Medium grey, fine-grained, several fractures stained with limonite and hematite	65°	10.40	10.52	23264
10.52	10.91	Core loss					
10.91	11.03	Quartzite	Very badly broken, light grey, fractured; fractures stained with limonite and hematite, lightly chloritized	65°	10.91	11.03	23265
11.03	11.09	Core loss					

DDH No. EPD 79-04

From	To	Rock Name	Description	CA	From	To	Sample
11.09	11.58	Quartzite	Medium grey, fine-grained, lightly chloritized; a few limonite stained fractures at 20-30° to CA, 11.21-11.22 quartz stringer at 70° to CA	60°	11.09	11.58	23266
11.58	11.63	Quartz-Carbonate Vein	80% Quartz, 20% carbonate in vein at 80° to CA	80°	11.58	11.63	23267
11.63	12.10	Quartzite	Medium grey, fine-grained badly broken up, several limonite stained fractures 11.74-11.80 lightly brecciated, 10% quartz as matrix		11.63	12.10	23268
12.10	12.70	Chlorite schist	Medium grey-green, soft, highly chloritic, very badly broken up, occasional quartz stringers up to 1.5 cm at 75° to CA	75°	12.10	12.70	23269
12.70	13.62	Core loss					
13.62	13.87	Chlorite schist	As above, some obvious cave in section	75°	13.62	13.87	23270
13.87	14.70	Quartzite	Medium grey-brown, fine-grained, lightly chloritized, a few chlorite filled fractures at 70° to C.A., some lightly brecciated sections 14.03 - 14.15 70% quartz as breccia matrix 14.53 - 14.57 60% quartz as breccia matrix	65°	13.87	14.70	23271
14.70	15.00	Chlorite schist	Medium grey-green, some soft highly chloritized and sericitized sections very badly broken up, occasional narrow quartz stringers	70°	14.70	15.00	23272
15.00	15.39	Core loss					
15.39	15.80	Chlorite schist Breccia	As above, but shows minor brecciation, generally 10-20% quartz as matrix 15.61-15.66 80% quartz as breccia matrix	70°	15.39	15.80	23273
15.80	15.85	Core loss					

From	To	Rock Name	Description	CA	From	To	Sample
15.85	16.11	Chlorite schist Breccia	As above, chips only recovered		15.85	16.11	23274
16.11	16.61	Core loss					
16.61	17.35	Chlorite schist Breccia	As above, mostly chips recovered, occasional short core pieces	70°	16.61	17.35	23275
17.35	17.50	Core loss					
17.50	17.60	Chlorite schist Breccia	As above, chips only recovered		17.50	17.60	23276
17.60	17.67	Core loss					
17.67	18.02	Chlorite schist Breccia	As above, occasional short pieces core and chips recovered about 50% of chips are quartz	70°	17.67	18.02	23277
18.02	18.53	Core loss					
18.53	19.87	Gouge zone	Limonite stained chips and rounded rice-pea size rock fragments recovered		18.53	19.00	23278
19.87	20.05	Core loss			19.00	19.87	23279
20.05	20.28	Gouge zone	As above		20.05	20.28	23280
20.28	20.42	Core loss					
20.42	21.64	Chlorite schist	Medium grey, fine-grained, occasional fractures coated with limonite, core generally very broken up	65°	20.42 21.00	21.00 21.64	23281 23282
21.64	21.94	Core loss					
21.94	22.15	Chlorite schist Breccia	est. 50% quartz as matrix in chlorite schist breccia		21.94	22.15	23283
22.15	22.56	Core loss					

From	To	Rock Name	Description	CA	From	To	Sample
22.56	22.80	Chlorite schist Breccia	Very highly brecciated, similar to above	70°	22.56	22.80	23284
22.80	22.98	Core loss					
22.98	23.30	Chlorite schist Breccia	Lightly brecciated chlorite schist, chloritized;a few narrow fractures showing limonite staining present	70°	22.98	23.30	23285
23.30	23.40	Core loss					
23.40	24.40	Chlorite schist	Highly chloritized, chlorite schist, occasional limonite stained fractures, occasional narrow quartz stringers parallel to foliation	60°	23.40	24.40	23286
24.40	25.21	Chlorite schist Breccia	Brecciated, highly chloritized chlorite schist, contains 30% quartz as breccia matrix occasional limonite filled fractures nearly parallel to CA	60°	24.40	25.21	23287
25.21	25.69	Quartzite	Medium grey, fine-grained contains numerous narrow fractures filled with limonite and occasionally chlorite, predominantly 30-40° to CA	fol 60° fract 55°	25.21	25.69	23288
25.69	26.25	Chlorite schist Breccia	Lightly brecciated, chloritized schist, est. 40% quartz as matrix		25.69	26.25	23289
26.25	28.92	Quartzite	Generally hard fine-grained quartzite with a few somewhat chloritic sections, a few fractures nearly parallel to CA filled with limonite		26.25 27.25	27.25 28.25	23290 23291
					28.25	28.92	23292
28.92	29.66	Chlorite schist	Highly chloritized schist, grey-green, fine-grained	50-60°	28.92	29.66	23293
29.66	30.20	Quartzite	Medium grey, fine-grained, very lightly chloritized, core somewhat broken up	50°	29.66	30.20	23294
30.20	31.08	Core loss					
31.08	31.77	Quartzite breccia	Somewhat chloritised, highly brecciated	60°	31.08	31.77	23295

DDH No. EPD 79-04

From	To	Rock Name	Description	CA	From	To	Sample
31.77	32.88	Quartzite	Medium grey, fine-grained, occasional narrow fractures with limonite staining	60°	31.77	32.88	23296
32.88	33.80	Chlorite schist	Highly chloritized chlorite schist, badly broken up, mostly chips recovered, some very minor brecciation	60°	32.88	33.80	23297
33.80	34.13	Core loss					
34.13	34.45	Chlorite schist	Highly chloritized chlorite schist, occasional quartz stringers parallel to foliation up to 1 cm. Occasional 1-3 mm quartz carbonate stringers, cross-cutting at random angles	55°	34.13	34.45	23298
34.45	34.53	Core loss					
34.53	35.10	Chlorite schist	As above		34.53	35.10	23299
35.10	36.00	Chlorite schist	Lightly chloritized chlorite schist, occasional 1 mm fractures at 10-20° to CA filled with quartz carbonate	60°	35.10	36.00	23300
36.00	36.12	Quartz Chlorite schist breccia	80% quartz as matrix to chlorite schist breccia		36.00	36.12	23301
36.12	36.72	Quartzite	Medium grey, fine-grained, occasional tension fractures at 10-20° to CA, some minor chlorite present.	60°	36.12	36.72	23302
36.72	38.10	Chloritic schist	Lightly chloritized dark green schist, numerous quartz filled fractures parallel to foliation, occasional cross cutting fractures filled with quartz	60°	36.72 37.40	37.40 38.10	23303 23304
38.10	39.53	Quartzite Breccia	Hard, fine-grained, medium to dark-grey, lightly brecciated est. 10% quartz as breccia matrix, occasional fractures coated with limonite, generally at 10-20° to CA		38.10 38.74	38.74 39.53	23305 23306

From	To	Rock Name	Description	CA	From	To	Sample
39.53	47.90	Chlorite schist	Lightly chloritized chlorite schist, dark grey-green, contains 10% quartz as stringers up to 1 cm, generally parallel to foliation	60°	39.53	40.50	23307
					40.50	41.36	23308
					41.36	42.30	23309
					42.30	43.28	23310
					43.28	44.30	23311
					44.30	45.30	23312
					45.30	46.32	23313
					46.32	47.30	23314
					47.30	47.90	23315
47.90	48.12	Quartzite	Medium grey, fine-grained, contains a few fractures stained with limonite	65°	47.90	48.12	23316
48.12	50.05	Chlorite schist	As above		48.12	49.10	23317
			49.68-49.70 Quartz stringer with 10% chlorite at 70° to CA		49.10	50.05	23318
			49.79-49.81 Quartz stringer with 10% chlorite at 60° to CA				
50.05	50.66	Quartzite	Grey, fine-grained, contains 15% quartz as limonite stained stringers at random angles to CA, up to 3 cm wide; a number of limonite coated fractures and a few chlorite filled fractures at random angles to CA		50.05	50.66	23319
50.66	50.82	Chlorite schist	Highly chloritized dark green schist, occasional 1-3 mm quartz stringer parallel to foliation	75°	50.66	50.82	23320
50.82	51.68	Quartzite	As in previous section		50.82	51.68	23321
51.68	52.95	Chlorite schist	As above		51.68	52.40	23322
			52.35-25.48 30% limonite stained quartz patches up to 3 cm	65°	52.40	52.95	23323
52.95	54.38	Quartzite	As in previous section	75°	52.95	53.89	23324
			54.28-54.30 Quartz stringer at 70° to CA; light limonite staining		53.89	54.38	23325

From	To	Rock Name	Description	CA	From	To	Sample No.
54.38	54.78	Chlorite schist Breccia	Highly chloritized, lightly brecciated schist, est. 15% limonite stained quartz as matrix		54.38	54.78	23326
54.78	55.02	Quartz vein	Contacts 20° to C.A., limonite stained, contains 5-7% chlorite		54.78	55.02	23327
55.02	56.50	Chlorite schist Breccia	As above		55.02	56.00	23328
56.50	60.03	Chlorite schist	Similar to above but not brecciated, contains up to 5% quartz as narrow stringers parallel to foliation 57.94-57.99 quartz stringer at 70° to CA, limonite staining on contacts	70°	56.00 56.50 57.50 58.50 59.50	56.50 57.50 58.50 59.50 60.03	23329 23330 23331 23332 23333
60.03	61.08	Chlorite schist Breccia	Very highly chloritized chlorite schist, contains 20% quartz as breccia matrix, dark violet-black sheen, some sericite present		60.03	61.08	23334
61.08	61.27	Chlorite schist	Less chloritized than brecciated section above, minor sericite present	75°	61.08	61.27	23335
61.27	61.78	Quartzite	As before 61.49-61.51 Quartz stringer with limonite staining, has some chlorite on margins	70°	61.27	61.78	23336
61.78	62.70	Chlorite schist	Highly chloritized 62.00-62.80 quartz stringer containing 10% chlorite at 45° to CA		61.78	62.70	23337
62.70	63.42	Quartzite	As before		62.70	63.42	23338
63.42	64.45	Chlorite schist	Lightly chloritized, occasional 1-3 mm quartz and quartz carbonate stringers at random angles to CA	65°	63.42	64.45	23339
64.45	65.93	Quartzite	As before, contains occasional narrow chlorite bands, fracture fillings?	50°	64.45 65.00	65.00 65.93	23340 23341

From	To	Rock Name	Description	CA	From	To	Sample No.
65.93	66.07	Chlorite schist	Highly chloritized,contains a few narrow 1-2 mm quartz stringers parallel to foliation	60°	65.93	66.07	23342
66.07	66.61	Quartzite	As before 66.36-66.40 Quartz stringer containing 5% chlorite at 65° to CA	70°	66.07	66.61	23343
66.61	68.71	Chlorite schist	Similar to above section, contains about 5% quartz as narrow stringers parallel to foliation and occasionally as patches	70°	66.61 67.61	67.61 68.71	23344 23345
68.71	68.93	Quartzite	As above, quite massive	70°	68.71	68.93	23346
68.93	70.15	Chlorite schist Breccia	Highly chloritized, lightly brecciated, contains 20% quartz as matrix		68.93 69.80	69.80 70.15	23347 23348
70.15	71.00	Quartzite Breccia	As before, but contains 30% quartz as breccia matrix. 5-10% chlorite in quartz	70°	70.15	71.00	23349
71.00	71.30	Chlorite schist	Heavily chloritized, contains 5% quartz as narrow stringers parallel to foliation	75°	71.00	71.30	23350
71.30	71.67	Quartzite	Quite massive, medium grey, fine-grained		71.30	71.67	23351
71.67	73.05	Chlorite schist Breccia	Lightly chloritized and brecciated, contains 10% secondary chlorite, 10% quartz as matrix, occasional limonite stained fractures 71.77-71.80 limonite stained quartz stringers at 75° to CA 72.46-72.50 limonite stained quartz stringers at 85° to CA	70°	71.67 72.50	72.50 73.05	23352 23353
73.05	73.24	Quartzite	As above	60°	73.05	73.24	23354
73.24	74.90	Chlorite schist Breccia	As in previous section	70°	73.24 74.00	74.00 74.90	23355 23356

From	To	Rock Name	Description	CA	From	To	Sample
74.90	74.98	Core loss					
74.98	75.13	Chlorite schist Breccia	Probably as above, only chips and quartz pieces recovered		74.98	75.13	23357
75.13	75.44	Core loss					
75.44	75.64	Quartzite	Massive, as in previous section		75.44	75.64	23358
75.64	76.50	Core loss					
76.50	78.52	Chlorite schist Breccia	Light to medium chloritization, lightly brecciated, est. 10% quartz as matrix material	60°	76.50 77.50	77.50 78.52	23359 23360
78.52	80.80	Quartzite	As above, generally quite massive, a few narrow chloritic sections	60°	78.52 79.50 80.20	79.50 80.20 80.80	23361 23362 23363
80.80	81.35	Core loss					
81.35	81.80	Chlorite schist Breccia	Highly chloritized and brecciated, mostly chips recovered, about 40% quartz in recovered material	55°	81.35	81.80	23364
81.80	81.96	Core loss					
81.96	82.60	Quartzite	Massive as before		81.96	82.60	23365
82.60	83.09	Chlorite schist	Highly chloritized, contains 5% quartz, parallel to foliation	60°	82.60	83.09	23366
83.09	84.23	Quartzite Breccia	Brecciated, contains 30% secondary quartz as matrix, a number of limonite stained fractures at random angles to CA		83.09 83.90	83.90 84.23	23367 23368
84.23	85.92	Chlorite schist Breccia	Highly chloritized and brecciated, contains 20% quartz as matrix 85.23-85.30 quartz stringer at 60° to CA, contains traces pyrite and black? sphalerite.		84.23 85.00	85.00 85.92	23369 23370

From	To	Rock Name	Description	CA	From	To	Sample
85.92	87.04	Quartzite	As before, contains a few narrow chlorite rich bands	70°	85.92	87.04	23371
87.04	87.70	Chlorite schist Breccia	As above		87.04	87.70	23372
87.70	88.40	Quartzite Breccia	Fairly massive, fine-grained, brecciated, contains 30% quartz matrix material		87.70	88.40	23373
88.40	88.97	Core loss					
88.97			End of hole				

CORTIN JOINT VENTURE

HOLE: EPD- 79- 04 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 1

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag					
23259	7.67	8.45	0.78		210	L2	67	25	175	1.0					
Core Loss	8.45	8.53	0.08		-	-	-	-	-	-					
23260	8.53	9.10	0.57		75	L2	49	10	77	0.5					
Core Loss	9.10	9.75	0.65		-	-	-	-	-	-					
23261	9.75	9.85	0.10		18	2	42	12	128	0.5					
Core Loss	9.85	9.90	0.05		-	-	-	-	-	-					
23262	9.90	10.10	0.20		455	L2	60	20	110	0.7					
Core Loss	10.10	10.24	0.14		-	-	-	-	-	-					
23263	10.24	10.40	0.16		58	L2	120	15	150	0.5					
23264	10.40	10.52	0.12		130	10	100	13	99	0.7					
Core Loss	10.52	10.91	0.39		-	-	-	-	-	-					
23265	10.91	11.03	0.12		130	L2	203	12	258	0.6					
Core Loss	11.03	11.09	0.06		-	-	-	-	-	-					
23266	11.09	11.58	0.49		33	110	141	11	120	0.4					
23267	11.58	11.63	0.05		17	L2	26	10	33	0.4					
23268	11.63	12.10	0.47		26	L2	136	20	120	0.4					
23269	12.10	12.70	0.60		21	14	108	20	104	0.8					
Core Loss	12.70	13.62	0.92		-	-	-	-	-	-					
23270	13.62	13.87	0.25		27	L2	111	17	126	1.1					
23271	13.87	14.70	0.83		28	6	268	24	100	1.5					
23272	14.70	15.00	0.30		14	L2	148	16	136	0.9					
Core Loss	15.00	15.39	0.39		-	-	-	-	-	-					
23273	15.39	15.80	0.41		15	L2	96	15	113	ND					
Core Loss	15.80	15.85	0.05		-	-	-	-	-	-					
23274	15.85	16.11	0.26		12	L2	78	19	126	0.5					
Core Loss	16.11	16.61	0.50		-	-	-	-	-	-					

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 04 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 2

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.) Sn	W	Cu	Pb	Zn	Ag					
23275	16.61	17.35	0.74		9	L2	28	11	78	0.5					
Core Loss	17.35	17.50	0.15		-	-	-	-	-	-					
23276	17.50	17.60	0.10		11	L2	40	26	120	0.8					
Core Loss	17.60	17.67	0.07		-	-	-	-	-	-					
23277	17.67	18.02	0.35		30	L2	45	19	81	0.3					
Core Loss	18.02	18.53	0.51		-	-	-	-	-	-					
23278	18.53	19.00	0.47		215	L2	439	20	167	2.5					
23279	19.00	19.87	0.87		41	6	330	20	250	4.5					
Core Loss	19.87	20.05	0.18		-	-	-	-	-	-					
23280	20.05	20.28	0.23		20	6	111	12	46	0.8					
Core Loss	20.28	20.42	0.14		-	-	-	-	-	-					
23281	20.42	21.00	0.58		12	L2	62	12	90	0.7					
23282	21.00	21.64	0.64		18	2	81	18	125	1.5					
Core Loss	21.64	21.94	0.30		-	-	-	-	-	-					
23283	21.94	22.15	0.21	0.38	G2000	8	1260	178	210	30.1		0.38% Sn 0.968 oz. Ag			
Core Loss	22.15	22.56	0.41		-	-	-	-	-	-					
23284	22.56	22.80	0.24		78	18	349	33	357	3.0					
Core Loss	22.80	22.98	0.18		-	-	-	-	-	-					
23285	22.98	23.30	0.32		97	8	265	18	225	1.5					
Core Loss	23.30	23.40	0.10		-	-	-	-	-	-					
23286	23.40	24.40	1.00		45	L2	120	3	275	0.2					
23287	24.40	25.21	0.81		38	10	141	17	459	0.8					
23288	25.21	25.69	0.48		26	L2	105	46	225	1.4					
23289	25.69	26.25	0.56		33	L2	99	70	155	3.0					
23290	26.25	27.25	1.00		16	L2	93	20	125	0.1					
23291	27.25	28.25	1.00		16	L2	53	42	175	0.2					

CORTIN JOINT VENTURE

HOLE: EPD-79 - 04 EPD CLAIMS - RESULTS OF 1979 DRILLING Sheet 3

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag					
23292	28.25	28.92	0.67		465	6	54	30	179	1.4					
23293	28.92	29.66	0.74		9	6	81	20	812	0.6					
23294	29.66	30.20	0.54		53	6	70	29	300	0.8					
Core Loss	30.20	31.08	0.88		-	-	-	-	-	-					
23295	31.08	31.77	0.69		22	2	109	130	242	2.9					
23296	31.77	32.88	1.11		10	2	88	23	287	0.9					
23297	32.88	33.80	0.92		8	2	70	90	251	2.0					
Core Loss	33.80	34.13	0.33		-	-	-	-	-	-					
23298	34.13	34.45	0.32		10	2	50	20	200	0.3					
Core Loss	34.45	34.53	0.08		-	-	-	-	-	-					
23299	34.53	35.10	0.57		6	L2	50	20	333	0.5					
23300	35.10	36.00	0.90		13	2	48	10	341	0.3					
23301	36.00	36.12	0.12		L5	L2	5	10	124	0.4					
23302	36.12	36.72	0.60		L5	L2	19	15	700	0.3					
23303	36.72	37.40	0.68		10	8	27	25	586	0.5					
23304	37.40	38.10	0.70		L5	L2	31	20	575	0.9					
23305	38.10	38.74	0.64		L5	L2	68	30	625	1.0					
23306	38.74	39.53	0.79		6	L2	61	40	900	0.6					
23307	39.53	40.50	0.97		5	L2	100	32	900	1.3					
23308	40.50	41.36	0.86		7	L2	43	20	425	0.1					
23309	41.36	42.30	0.94		18	10	80	70	1732	1.0					
23310	42.30	43.28	0.98		L5	6	60	190	581	0.5					
23311	43.28	44.30	1.02		L5	L2	35	20	221	0.5					
23312	44.30	45.30	1.00		L5	L2	30	15	99	0.3					
23313	45.30	46.32	1.02		5	L2	47	17	197	0.5					
23314	46.32	47.30	0.98		5	L2	79	80	142	1.5					

CORTIN JOINT VENTURE

HOLE : EPD - 79 - 04

EPD CLAIMS - RESULTS OF 1979 DRILLING

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag					
23315	47.30	47.90	0.60		L5	L2	64	18	100	0.9					
23316	47.90	48.12	0.22		43	L2	78	47	197	2.1					
23317	48.12	49.10	0.98		L5	L2	127	12	225	ND					
23318	49.10	50.05	0.95		5	L2	60	15	150	1.0					
23319	50.05	50.66	0.61		9	4	70	10	200	1.4					
23320	50.66	50.82	0.16		5	4	51	22	254	0.5					
23321	50.82	51.68	0.86		5	L2	56	17	149	0.6					
23322	51.68	52.40	0.72		L5	L2	81	23	330	0.2					
23323	52.40	52.95	0.55		5	L2	68	18	391	0.9					
23324	52.95	53.89	0.94		15	L2	180	31	611	1.0					
23325	53.89	54.38	0.49		5	L2	76	25	204	1.0					
23326	54.38	54.78	0.40		5	L2	80	25	350	1.2					
23327	54.78	55.02	0.24		7	L2	40	20	175	0.7					
23328	55.02	56.00	0.98		8	L2	50	20	170	0.8					
23329	56.00	56.50	0.50		16	L2	53	23	169	0.6					
23330	56.50	57.50	1.00		16	L2	67	30	281	0.7					
23331	57.50	58.50	1.00		12	L2	97	20	291	1.0					
23332	58.50	59.50	1.00		13	L2	51	10	209	0.6					
23333	59.50	60.03	0.53		6	L2	56	43	186	0.5					
23334	60.03	61.08	1.05		6	L2	63	22	100	0.9					
23335	61.08	61.27	0.19		8	L2	31	13	153	0.7					
23336	61.27	61.78	0.51		7	L2	15	18	74	1.3					
23337	61.78	62.70	0.92		2	2	91	36	2240	0.5					
23338	62.70	63.42	0.72		13	8	68	30	1045	0.8					
23339	63.42	64.45	1.03		57	L2	194	85	1375	1.5					
23340	64.45	65.00	0.55		10	L2	320	43	812	3.0					

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 04 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 5

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)									
					Sn	W	Cu	Pb	Zn	Ag				
23341	65.00	65.93	0.93		12	L2	139	21	487	0.6				
23342	65.93	66.07	0.14		7	L2	167	12	153	0.6				
23343	66.07	66.61	0.54		8	L2	150	38	418	0.7				
23344	66.61	67.61	1.00		18	L2	110	28	339	1.0				
23345	67.61	68.71	1.10		5	L2	62	28	400	0.5				
23346	68.71	68.93	0.22		L5	50	105	50	3180	1.0				
23347	68.93	69.80	0.87		6	L2	132	30	450	0.6				
23348	69.80	70.15	0.35		10	L2	172	30	387	0.7				
23349	70.15	71.00	0.85		8	L2	98	35	348	0.6				
23350	71.00	71.30	0.30		7	L2	55	23	239	0.5				
23351	71.30	71.67	0.37		5	L2	43	12	198	0.7				
23352	71.67	72.50	0.83		L5	L2	70	22	100	1.0				
23353	72.50	73.05	0.55		L5	L2	69	15	250	0.5				
23354	73.05	73.24	0.19		6	L2	30	6	111	0.5				
23355	73.24	74.00	0.76		5	L2	71	17	342	0.6				
23356	74.00	74.90	0.90		12	L2	110	25	360	0.5				
Core Loss	74.90	74.98	0.08		-	-	0	0	0	-				
23357	74.98	75.13	0.15		21	10	67	80	71	7.6				
Core Loss	75.13	75.44	0.31		-	-	-	-	-	-				
23358	75.44	75.64	0.20		9	L2	90	25	162	0.9				
Core Loss	75.64	76.50	0.86		-	-	-	-	-	-				
23359	76.50	77.50	1.00		43	L2	221	35	387	1.4				
23360	77.50	78.52	1.02		12	L2	177	30	345	0.5				
23361	78.52	79.50	0.98		6	L2	64	28	102	0.5				
23362	79.50	80.20	0.70		22	L2	129	30	153	0.1				
23363	80.20	80.80	0.60		12	L2	109	30	172	0.8				

CORTIN JOINT VENTURE

HOLE : EPD - 79 - 04

EPD CLAIMS - RESULTS OF 19 79 DRILLING

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (In p.p.m.)					
					Sn	W	Cu	Pb.	Zn	Ag
Core Loss	80.80	81.35	0.55		-	-	-	-	-	-
23364	81.35	81.80	0.45		11	L2	49	19	225	1.0
Core Loss	81.80	81.96	0.16		-	-	-	-	-	-
23365	81.96	82.60	0.64		15	L2	82	17	335	1.0
23366	82.60	83.09	0.49		L5	2	181	25	262	1.3
23367	83.09	83.90	0.81		6	L2	159	20	297	1.7
23368	83.90	84.23	0.33		12	L2	192	30	296	1.0
23369	84.23	85.00	0.77		19	L2	306	67	625	9.7
23370	85.00	85.92	0.92		10	L2	376	130	302	2.0
23371	85.92	87.04	1.12		11	L2	245	56	300	1.3
23372	87.04	87.70	0.66		105	L2	470	120	482	9.0
23373	87.70	88.40	0.70		40	L2	101	32	198	1.0
Core Loss	88.40	88.97	0.57		-	-	-	-	-	-

VENTURE CORTIN

PROJECT

PROPERTY EPD

CAMPBELL RESOURCES INC.
DIAMOND DRILL LOG

LOCATION

GRID

Location Fewmet Zone not surveyed

Section

Bearing 350°

Dip -45°

Length 99.10m

TESTS

TROPARI

Depth	Mag Brg	Corr Brg	Dip
60.96m			
91.44m			

ACID

Dip[2]
47°
48°

SURVEY

Latitude

Departure

Elevation

Bearing

Dip

PHYSICAL DATA

Core Size NQ to 99.10, to

Date Started September 19, 1980

Date Completed October 7, 1980

Casing Pulled Yes

Core Recovery 88.8%

Cemented No

Core Location: In storage at Oliver Creek camp site 115-P-15

Logged by D.R. Kennedy

Contractor Arctic Diamond Drilling

NOTES: 1) Give reference - Magnetic, Grid, True

2) Corrected dip.

DDH No. 80-12

From	To	Rock Name	Description	CA	From	To	Sample No.
0.00	4.30	Casing	Through overburden.				
4.30	4.70	Quartzite	Medium grey, fine grained, contains numerous choritic partings at 70-75° to C.A. Core fairly broken up. 4.30-4.34: Several pieces broken quartz. 4.49-4.53: Quartz patch. 4.56 : 6 mm quartz stringer 65° to C.A.	70-75°			
4.70	5.30	Biotite Chlorite Schist	Medium to dark grey, well foliated at 55-65° to C.A. 4.70-4.95: Estimate 80% quartz, contains a few narrow schist bands.	55-65°			
5.30	5.66	Quartzite Breccia	Angular and rounded fragments in dark, fine grained (tourmaline rich?) matrix.		5.30	5.66	40375
5.66	6.10	Ground Core					
6.10	6.50	Quartzite	Light grey, fine to medium grained, fairly massive, contains a number of micaceous partings, generally at 65-70° to C.A. 6.30 : 5 mm quartz stringer at 68° to C.A.	65-70°			
6.50	6.60	Ground Core					
6.60	7.90	Quartzite	As above. 7.58-7.59: Quartz stringer at 55° to C.A.				
7.90	8.28	Quartzite Breccia	Angular and rounded fragments (60%) in dark grey, fine grained (tourmaline rich?) matrix. Somewhat rusty.		7.90	8.28	40376

From	To	Rock Name	Description	CA	From	To	Sample No.
8.28	10.40	Quartzite	Light grey, fine to medium grained, contains several chloritic partings at 65-70° to C.A. Contains a few narrow schist bands up to 5 cm. Occasional fractures at 5° to C.A., sometimes rusty.				
10.40	14.93	Biotite Chlorite Schist	Medium to dark grey, finely foliated at 60-65° to C.A., contains several narrow (up to 5 cm) quartzite interbands, contains a few quartz carbonate stringers generally up to 1 mm parallel to foliation. 10.90-11.35: Several vugs coated with black FeMn stain. 11.76-11.83: Several rusty vuggy fractures at 25-35° to C.A. 14.10-14.21: Several irregular quartz stringers, all less than 5 mm, generally at 45° to C.A. 14.70-14.90: Rusty, several vugs and open fractures.				
14.93	17.00	Quartzite Breccia	Similar to above sections, but slightly more rusty. A number of short, vuggy, rusty sections. 16.80-16.95: Extremely vuggy, rusty.		14.93 16.00	16.00 17.00	40377 40378
17.00	17.10	Ground Core					
17.10	17.45	Quartzite Breccia	As above. 17.20-17.40: Rusty fracture at 5° to C.A. 17.40 : 1.5 cm rusty, vuggy band at 70° to C.A.		17.10	17.45	40379
17.45	17.65	Gouge Zone	Soft, extremely rusty mud.		17.45	17.65	40380

From	To	Rock Name	Description	CA	From	To	Sample No.
17.65	18.00	Quartzite Breccia	Similar to above.		17.65	18.00	40381
18.00	18.60	Ground Core					
18.60	18.95	Biotite Chlorite Schist	Medium to dark grey, finely foliated at 60-70° to C.A., mostly chips recovered. Some minor quartzite bands present.	60-70°	18.60	18.95	40382
					18.95	19.30	40383
18.95	19.30	Quartzite	Light grey, fine grained, mostly chips and small pieces recovered.				
19.30	20.10	Ground Core					
20.10	22.70	Quartzite with Schist Interbands	Light to medium grey, fine grained with numerous biotite chlorite schist interbands, schist bands typically less than 5 cm. Occasional narrow quartz stringers parallel to foliation.		20.10	21.10	40384
					21.10	22.10	40385
					22.10	22.70	40386
			20.10-20.40: Extremely rusty, vuggy, rotted quartzite breccia fragments held together by limonite matrix.		22.70	22.98	40387
22. 0	22.98	Quartzite	Rusty brown limonite, highly fractured at 15° and 80° to C.A., fractures coated with dark FeMn stain.				
22.98	23.10	Quartzite with Schist Interbands	Similar to above section, vague foliation at 70-75° to C.A.	70-75°			
23.10	23.20	Ground Core					
23.20	24.20	Quartzite with Schist Interbands	As above, contains occasional quartz patches and stringers, generally in schist bands.				

From	To	Rock Name	Description	CA	From	To	Sample No.
24.20	25.00	Quartzite	Light to medium grey, fine grained, fairly massive. Contains occasional narrow schist bands, generally at 60-70° to C.A. 24.38-24.42: 2 quartz patches, contains minor chlorite.	60-70°			
25.00	25.09	Biotite Chlorite Schist	Dark grey, well foliated at 65° to C.A.	65°			
25.09	25.20	Quartzite Breccia	Rusty, angular and rounded fragments in rusty chloritic matrix.		25.09	25.20	40388
25.20	26.21	Biotite Chlorite Schist	Dark grey, well foliated at 55-65° to C.A. 25.40-25.45: Estimate 10% quartz as narrow irregular stringers and patches. 25.70 : 1 cm. mud seam at 60° to C.A. 25.86-25.90: Quartz patch. 26.00-26.05: Mud seam at 63° to C.A.	55-65°			
26.21	27.80	Quartzite	Light grey, fine grained, massive. Contains occasional narrow (typically less than 1 cm) schist bands, vaguely foliated at 60° to C.A. 26.72-26.75: 7 mm quartz stringer with Z shaped folding. 26.80-26.83: Several narrow quartz stringers at 65° to C.A. 27.10-27.12: Quartz stringer at 65° to C.A., contains minor rotted sulphides. 27.63-27.64: Quartz stringer at 57° to C.A.	60°			
27.80	34.40	Quartzite with Schist Interbands	Similar to above sections, schist bands typically 1-2 cm, generally at 65-70° to C.A.	65-70°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			Occasional quartz stringers up to 5 mm, generally 65-70° to C.A. 28.53-28.59: Circular quartz patch, contains 5% chlorite. 30.50 : 1 cm. quartz stringer at 55° to C.A. 30.65 : 5 mm mud seam at 65° to C.A. 30.75-30.84: Estimate 70% quartz as stringers and patches, stringers at 60° to C.A. 31.84-31.86: Quartz stringer at 75° to C.A. 32.73-32.78: Several quartz stringers up to 5 mm at 67° to C.A. 34.05-34.11: Estimate 20% quartz as patches and stringers, stringers at 67° to C.A. 34.68 : 6 mm quartz stringer at 63° to C.A. 34.74-34.76: Quartz patch. 34.82-35.00: Several discontinuous quartz stringers, generally at 65° to C.A. 35.27-35.28: Quartz stringer at 75° to C.A. 35.31- : Quartz lens.				
34.40	41.30	Quartzite	Light grey, fine grained, massive, contains odd narrow (less than 1 cm) schist bands, a few sections very slightly rusted. 36.33-36.50: Several narrow schist bands at 55° to C.A. 37.73-37.79: Quartz patch. 37.95 : FeMn stained fracture at 25° to C.A. 38.34 : 6 mm quartz stringer at 70° to C.A.				

From	To	Rock Name	Description	CA	From	To	Sample No.
			38.42 : 5 mm quartz stringer at 73° to C.A. 38.45-38.90: Mud seam at 62° to C.A. 38.69 : 4 mm quartz stringer at 60° to C.A. 40.41 : Discontinuous quartz lens. 40.64-40.66: Quartz stringer at 60° to C.A. 40.71-40.79: Quartz stringer at 65° to C.A. 40.88-40.98: Quartz stringer at 65° to C.A. 41.09-41.11: Quartz stringer at 65° to C.A. 41.14-41.16: Quartz stringer at 70° to C.A. 41.19-41.22: Quartz patch.				
41.30	43.87	Quartzite with Schist Interbands	Estimate 70% quartzite, 30% schist, schist bands up to 20 cm., typically less than 10 cm. 41.81-41.84: Quartz stringer at 63° to C.A. 42.69 : 4 mm quartz stringer at 75° to C.A. 43.07-43.09: Slightly rusty quartz stringer at 58° to C.A. 43.13 : 7 mm quartz stringer at 63° to C.A. 43.15 : 5 mm quartz stringer at 62° to C.A. 43.40-43.46: Quartz stringer at 64° to C.A.				
43.87	44.57	Biotite Chlorite Schist	Medium to dark grey, well foliated at 60° to C.A., contains a number of quartzite bands up to 3 cm., several quartz stringers	60°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			up to 5 mm. parallel to foliation.				
44.57	44.75	Quartzite	Light grey, fine grained, massive. Contains several quartz patches, usually with vugs.				
44.75	45.38	Biotite Chlorite Schist	Dark grey-green, well foliated at 65° to C.A. Contains a few 1-5 mm quartz stringers, parallel to foliation. 44.76-45.00: Estimate 70% quartz as patches and stringers, extremely vuggy, contains some completely rotted sulphides. 45.34-45.35: Quartz stringer at 80° to C.A.	65°			
45.38	48.08	Quartzite with Schist Interbands	Quartzite, 80%, light grey, fine grained, massive, contains numerous narrow Biotite Chlorite Schist bands, generally dark grey, well foliated at 60-75° to C.A. Typically less than 10 cm. 45.59-45.61: Quartz patch, contains rusty vugs. 46.05-46.07: Three narrow quartz stringers at 65° to C.A. 46.66-46.70: Quartz stringer at 75° to C.A. 46.72-46.74: Quartz stringer at 50° to C.A. 46.80-46.81: Quartz stringer at 65° to C.A. 46.84-46.85: Quartz stringer at 60° to C.A. 46.92-46.93: Quartz stringer at 55° to C.A. 47.23-47.30: Several hairline fractures	60-75°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			at 20° to C.A., sometimes vuggy. 47.44-47.90: Quartz stringer at 80° to C.A. 47.63-47.65: Quartz stringer at 75° to C.A. 47.92-48.08: Quartz stringer at 72° to C.A., contains minor chlorite.				
48.08	48.76	Quartzite	Light grey, fine grained, massive. Contains a few micaceous partings at 60-65° to C.A. 48.38-48.41: Schist band at 62° to C.A. 48.58-48.64: Quartz patch, contains 5-7% chlorite.	60-65°			
48.76	52.76	Quartzite with Schist Interbands	Quartzite 70%, light grey, fine grained, fairly massive, cut by numerous dark grey to black biotite chlorite schist bands at 65-75° to C.A. 49.14-49.15: Quartz stringer at 75° to C.A. 49.21-49.24: 2 discontinuous quartz stringers at 61° to C.A. 49.60-49.67: Fold hinge? 1 cm quartz stringer folded back on itself with quartz patch centered in between limbs. Foliation locally parallel to quartz stringer. 49.80-49.89: Quartz stringer at 68° to C.A. 49.89-50.00: Several vuggy FeMn stained vugs. 50.16-50.39: Estimate 25% quartz as stringers and patches, occasionally minor	65-75°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			carbonate present, stringers generally 60-65° to C.A.				
			50.60-51. 5: Several 2-5 mm quartz stringers at 65-70° to C.A.				
			51.10-51.15: Several traces FeMn stain.				
			51.62-51.64: Quartz stringer with minor carbonate at 75° to C.A.				
			51.68-51.69: Quartz stringer at 46° to C.A.				
			51.74-51.79: Quartz stringer at 55° to C.A., contains traces chlorite.				
			51.87-51.92: Quartz patch, contains minor carbonate.				
			52.41-52.42: Quartz stringer at 72° to C.A.				
52.76	56.58	Biotite Chlorite Schist	Medium to dark grey, well foliated at 65-75° to C.A., contains occasional quartz stringers and quartz patches, often slightly rusty. Stringers generally parallel to foliation, contains a few narrow quartzite bands.	65-75°			
			53.10-53.30: Estimate 25% quartz as patches and stringers.				
			53.50-53.60: Quartz stringer at 60° to C.A.				
			54.08-54.35: Estimate 15% quartz as slightly rusty patches.				
			54.71-54.73: Rusty quartz stringer at 65° to C.A.				
			55.05-55.07: Quartz stringer at 70° to C.A., slightly rusty.				
			55.07-55.50: Rusty zone, contains several patches quartz				

From	To	Rock Name	Description	CA	From	To	Sample No.
			and numerous discontinuous stringers slightly limy.		55.00	56.00	40396
			56.05-56.07: Slightly rusty quartz stringer at 80° to C.A.		56.00	56.58	40397
56.58	57.20	Quartzite	Light grey, fine grained, massive, vaguely foliated at 75° to C.A.	75°	56.58	57.20	40398
57.20	59.20	Biotite Chlorite Schist	Medium to dark grey, well foliated at 70-80° to C.A., slightly limy, slightly rusty, more broken up than previous sections.	70-80°	57.20	58.20	40399
			57.27 : 3 mm quartz carbonate stringer at 75° to C.A.		58.20	59.20	40400
			58.06-58.08: Quartz stringer at 80° to C.A.				
			58.10-58.70: Numerous carbonate flakes give core mottled appearance.				
59.20	59.70	Ground Core					
59.70	59.90	Biotite Chlorite Schist	As above.	70-80°	59.70	59.90	40401
59.90	60.00	Ground Core					
60.00	62.22	Biotite Chlorite Schist	Similar to above sections.	70-80°	60.00	61.00	40402
			60.00-60.20: Mud seam, grey clay recovered.				
			60.20-61.00: Numerous carbonate flakes give core mottled appearance.		61.00	62.22	40403
			60.75-60.85: Several irregular quartz patches.				
			61.60-61.93: Numerous small (1-2 mm vugs)				

From	To	Rock Name	Description	CA	From	To	Sample No.
			61.93-62.13: Estimate 15% quartz as narrow stringers and patches, slightly rusty.				
62.22	63.43	Quartzite	Medium grey, fine to medium grained, hard contains numerous micaceous partings at 70-75° to C.A. 62.84-62.86: Quartz patch.	70-75°	62.22	63.43	40404
63.43	65.40	Micaceous Schist	Dark to medium grey, well foliated at 60-70° to C.A., more quartz rich variety of biotite chlorite schist. Very slightly limy. 63.47 : 5 mm quartz stringer at 88° to C.A. 63.65-63.75: Somewhat vuggy section. 63.66-63.67: Quartz stringer at 78° to C.A., slightly rusty. 63.70-63.71: Discontinuous quartz stringer. 63.88-63.92: Large vug coated with FeMn stain. 63.90-63.93: Quartz stringer at 75° to C.A., contains a few rusty fractures at 10° to C.A. 64.20- : 5 mm quartz patch. 64.33-64.37: Quartz stringer at 84° to C.A., slightly rusty. 64.70-64.90: Mud seam, grey clay and rock chips recovered. 65.20-65.26: Numerous 1 mm vugs.	60-70°	63.43 64.40	64.40 65.40	40405 40406
65.40	66.10	Ground Core					
66.10	68.15	Micaceous Schist	Similar to above, section more quartz-rich than biotite chlorite schist, very slightly limy.		66.10	67.10	40407

From	To	Rock Name	Description	CA	From	To	Sample No.
			66.10-67.20: Numerous small vugs present. 66.24-66.25: Well rotted, extremely vuggy. 67.31- : 2 cm x 1 cm quartz patch. 68.00-68.11: Several discontinuous quartz stringers or patches.				
68.15	68.30	Ground Core					
68.30	68.77	Micaceous Schist	As in previous section. 68.59 : 7 mm quartz stringer at 60° to C.A. 68.62-68.63: Quartz stringer at 65° to C.A.				
68.77	68.90	Ground Core					
68.90	69.34	Quartzite	Light grey, hard, quite massive, vaguely foliated at 60° to C.A. 69.15-69.34: Core highly broken up, contains a few 5 mm quartz stringers at 60° to C.A.	60°			
69.34	70.00	Biotite Chlorite Schist	Dark grey to black, soft, well foliated at 60-70° to C.A., contains several 1-5 mm quartz stringers (often with minor carbonate) parallel to foliation.	60-70°			
70.00	70.90	Biotite Chlorite Schist with Quartzite Interbands	Similar to above section, but contains several bands quartzite. Foliation generally at 55-70° to C.A., contains numerous 1-5 mm quartz and quartz carbonate stringers parallel to foliation. 69.61-69.62: Quartz stringer at 75° to C.A.	55-70°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			69.66-69.68: Vuggy quartz stringer at 80° to C.A. 69.73 : 7 mm quartz stringer at 63° to C.A. 69.74-69.90: 2 large quartz carbonate patches with concentric schist bands around them in quartzite section.				
70.90	71.30	Ground Core					
71.30	72.85	Schist with Quartzite Interbands	As above. 71.36-71.37: Quartz stringer at 64° to C.A. 71.38-71.39: Quartz stringer at 65° to C.A. 71.42-72.10: Estimate 20% quartz with minor carbonate, mostly as narrow stringers parallel to foliation. 71.87 : Turned core end indicates grinding. 72.20-72.25: Quartz stringer at 70° to C.A., slightly rusty. 72.34-72.35: 1 cm quartz carbonate stringer at 55° to C.A.				
72.85	74.00	Quartzite	Light grey to slightly rusty brown, fairly massive. Contains a few odd schist interbands, contains odd fractures nearly parallel to C.A., filled with quartz carbonate.				
74.00	74.27	Biotite Chlorite Schist	Dark grey to black, contains estimated 35% quartz as stringers and patches.				

From	To	Rock Name	Description	CA	From	To	Sample No.
			Foliation highly contorted.				
74.27	76.70	Micaceous Schist	Light to medium grey to slightly rusted, well foliated at 55-65° to C.A. Some sections more quartzose, foliation less obvious. 75.00-75.63: Limy section, numerous 1-2 cm quartz carbonate stringers at 70° to C.A. 75.63-75.75: Estimate 45% quartz with minor carbonate, mostly as irregular stringers at 70° to C.A. 75.70: 2 cm vug 75.85-75.88: Very soft, rusty. 76.10-76.50: A few quartz stringers which pinch and swell, from 2 mm to 1.5 cm, generally parallel to foliation.	55-65°			
76.70	76.80	Ground Core					
76.80	79.00	Micaceous Schist	As above. 77.00 : Turned end indicates grinding. 77.10-77.11: Quartz carbonate stringer at 67° to C.A. 77.50-78.00: Quartzose section.				
79.00	82.10	Biotite Chlorite Schist	Dark grey to black, well foliated at 65-70° to C.A., contains numerous 1-2 mm quartz and quartz carbonate stringers parallel to foliation. 79.68 : 5 mm quartz carbonate stringers at 64° to C.A. 79.78-79.80: Quartz carbonate stringer at 75° to C.A.	65-70°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			80.07 : 5 mm quartz carbonate stringer at 67° to C.A. 81.61-81.75: Limy section.				
82.10	82.30	Ground Core					
82.30	83.80	Quartzite with Schist Interbands	Light grey, fine-grained, fairly massive, with narrow bands biotite chlorite schist. 82.35 : S-shaped 1 cm quartz stringer. 82.60-83.62: 2 discontinuous quartz stringers at 70° to C.A. 82.69-82.70: Quartz stringer at 70° to C.A. 82.83 : 7 mm quartz stringer at 35° to C.A. 83.00-83.20: Estimate 60% quartz as several stringers at 63° to C.A., slightly rusty.				
83.80	85.10	Biotite Chlorite Schist	Dark grey to black, finely foliated at 55-60° to C.A. 83.81-83.82: Quartz stringer at 70° to C.A. 84.07-84.09: Quartz stringer at 70° to C.A. 84.55 : 5 mm quartz stringer at 70° to C.A.	55-60°			
85.10	85.30	Quartzite	Light grey, very finely foliated at 70° to C.A. 85.10-85.16: Quartz stringer at 65° to C.A.	70°			
85.30	86.50	Biotite Chlorite Schist	Dark grey to black, finely foliated at 60-65° to C.A. 85.38-85.42: Quartz stringer at 65° to C.A.	60-65°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			85.80-85.90: Estimate 30% quartz as irregular stringers, often vuggy, generally at 60-65° to C.A. 86.00-86.50: Several irregular and discontinuous quartz stringers, generally trending 50-60° to C.A. Some minor carbonate.				
86.50	87.20	Ground Core					
87.20	88.10	Biotite Chlorite Schist	Similar to above section, possibly slightly more quartzose. Foliation at 60-70° to C.A.	60-70°			
88.10	89.30	Ground Core					
89.30	89.90	Quartzite	Medium grey, fine-grained, massive.				
89.90	90.20	Ground Core					
90.20	91.00	Quartzite	Medium grey, fine-grained, massive. Occasional rusty fractures.				
91.00	91.10	Quartzite Breccia	Quartzite fragments, generally rounded, 40% in brown tourmaline matrix, contains scattered pyrite crystals, minor pyrrhotite.				
91.10	91.40	Ground Core					
91.40	94.50	Biotite Chlorite Schist	Dark grey to black, finely foliated at 45° to C.A., some sections fairly quartzose, harder, some minor disseminated pyrrhotite in quartz-rich sections, a few light grey quartzite bands, generally parallel to foliation.	45°			

From	To	Rock Name	Description	CA	From	To	Sample No.
			92.50-92.53: Hard quartzite band at 61° to C.A. 92.53 : 5 mm quartz stringer at 60° to C.A. 92.61-92.67: Quartzite band at 61° to C.A., contains minor chlorite. 92.78-92.91: Quartzose schist, contains rusty fracture at 30° to C.A. 93.40-93.60: Core highly broken up, several pieces contain quartz stringers up to 5 mm, parallel to foliation. 93.95-94.30: Estimate 35% quartz as irregular stringers and patches, quartz contains soft green altered amphibole? traces pyrrhotite.				
94.50	95.10	Ground Core					
95.10	95.26	Biotite Chlorite Schist?	Only 0.16 m recovered from 3.60 m run. Recovered bits are mostly quartz and obvious cave (quartzite). No explanation for non-recovery, probably biotite-chlorite schist section with some quartz stringers.				
95.26	98.70	Ground Core					
98.70	99.10	Biotite Chlorite Schist	Dark grey to black, well foliated at 72° to C.A., contains a few bands more quartzose material. Occasional traces pyrrhotite.	72°			
99.10		End of Hole	Hole stopped because of mechanical problems with drill.				

CORTIN JOINT VENTURE

HOLE: EPD - 80 - 12 — EPD CLAIMS - RESULTS OF 1980 DRILLING — EPD 80-12

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (In p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag					
40375	5.30	5.66	0.36		18		21	72	91	1.8					
40376	7.90	8.28	0.38		12		32	58	50	0.5					
40377	14.93	16.00	1.07		27		160	70	1140	2.0					
40378	16.00	17.00	1.00		140		260	145	530	1.3					
Ground	17.00	17.10	0.10		-		-	-	-	-					
40379	17.10	17.45	0.35		52		22	140	410	0.8					
40380	17.45	17.65	0.20		41		150	130	180	3.8					
40381	17.65	18.00	0.35		190		78	59	120	3.8					
Ground	18.00	18.60	0.60		-		-	-	-	-					
40382	18.60	18.95	0.35		320		150	72	280	2.5					
40383	18.95	19.30	0.35		180		91	100	165	3.3					
Ground	19.30	20.10	0.80		-		-	-	-	-					
40384	20.10	21.10	1.00		310		97	170	390	3.0					
40385	21.10	22.10	1.00		47		39	21	155	0.5					
40386	22.10	22.70	0.60		L5		60	9	225	0.3					
40387	22.70	22.98	0.18		L5		84	16	280	0.3					
40388	25.09	25.20	0.11		L5		120	28	340	0.3					
40396	55.00	56.00	1.00		93		47	64	170	1.1					
40397	56.00	56.58	0.58		6		30	27	198	0.6					
40398	56.58	57.20	0.62		38		26	37	112	0.7					
40399	57.20	58.20	1.00		8		25	27	196	0.5					
40400	58.20	59.20	1.00		15		48	1907	391	6.1					

CORTIN JOINT VENTURE

HOLE : EPD - 80 - 12

EPD CLAIMS - RESULTS OF 1980 DRILLING

EPD 80-12

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES :(in p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag					
Ground	59.20	59.70	0.50		-		-	-	-	-					
40401	59.70	59.90	0.20		7		60	27	449	0.7					
Ground	59.90	60.00	0.10		-		-	-	-	-					
40402	60.00	61.00	1.00		38		51	30	404	0.3					
40403	61.00	62.22	1.22		47		38	40	289	0.4					
40404	62.22	63.43	1.21		15		17	24	181	0.2					
40405	63.43	64.40	0.97		7		32	23	451	0.4					
40406	64.40	65.40	1.00		L5		45	80	439	0.6					
Ground	65.40	66.10	0.70		-		-	-	-	-					
40407	66.10	67.10	1.00		5		28	44	600	0.4					

Government of Canada / Gouvernement du Canada

ACTION REQUEST / FICHE DE SERVICE

TO – À: D. R. KENNEDY

FILE NO. – DOSSIER Nº:

DATE: 17/2/81

FROM – DE: R.G. RONAGHAN

☐ PLEASE CALL / PRIÈRE D'APPELER	TEL. NO. – Nº DE TEL.	EXT. – POSTE
☐ WANTS TO SEE YOU / DÉSIRE VOUS VOIR ☐ WILL CALL AGAIN / DOIS RAPPELER	DATE	TIME – HEURE
CALL RECEIVED BY / MESSAGE REÇU PAR ▶		

☐ ACTION / DONNER SUITE
☐ COMMENTS / COMMENTAIRES
☐ MAKE / FAIRE _____ COPIES
☐ APPROVAL / APPROBATION
☐ DRAFT REPLY / PROJET DE RÉPONSE
☐ SIGNATURE
☐ NOTE & RETURN / NOTER ET RETOURNER
☐ NOTE & FORWARD / NOTER ET FAIRE SUIVRE
☐ NOTE & FILE / NOTER ET CLASSER

THESE HOLES WERE DRILLED IN AUG. 79 & ARE NO LONGER ELIGIBLE AS ASSESSMENT WORK.

090758

7540-21-868-3907

CAMPBELL RESOURCES INC.

Date Feb 20/81

TO:

1 R. G. Ronaghan

2

3

4

5

FOR:

☐ Approval ☒ Filing
☐ Comments ☐ Code
☐ Information ☐ Pay

090758

FROM: D. Kennedy

REMARKS:

No assessment work is claimed re these holes. They were included so that the Department files might be complete. DK

090758

CCH RESOURCES LTD.
DIAMOND DRILL LOG

VENTURE CORTIN

PROJECT

PROPERTY EPD

LOCATION

GRID

Location 100 + 4.8 N

Section 102 + 20.2 W

Bearing 350 True

Dip -44.5

Length 90.90 m

TESTS

TROPARI

Depth	Mag Brg	Corr Brg	Dip	Dip[2]
30.48 m			37	30
60.96 m			37	30
90.83 m			37	30

ACID

SURVEY

Latitude

Departure

Elevation

Bearing

Dip

PHYSICAL DATA

Core Size AQ to end , to

Date Started August 15, 1979

Date Completed August 20, 1979

Casing Pulled yes

Core Recovery 58.8%

Cemented no

Core Location: In storage at Oliver Creek camp site 115-P-15

Logged by A. Woodsend

Contractor Canico

NOTES: 1) Give reference - Magnetic, Grid, True

2) Corrected dip.

DDH No. EPD 79-01

From	To	Rock Name	Description	CA	From	To	Sample N
0	7.81	Casing					
7.81	7.91	Quartzite	Quartz-sericite-chlorite, rusty patches on foliation planes, poorly foliated.		7.81	7.91	23000
7.91	12.37	CL					
12.37	12.57	Chloritic Quartzite	Highly foliated quartz-chlorite-sericite, incipient brecciation, small rusty patches near brecciated material, breccia confined to a 0.01m cross-cutting vein. At base of this section vuggy quartz vein 0.01m.	breccia 75°	12.37	12.57	23001
12.57	14.74	CL					
14.74	15.74	Quartzite	Quartz-sericite-chlorite, well foliated, little post metamorphic alteration, some variation in quartz content, occasional rusty fractures.	F30°	14.74	15.74	23002
15.74	15.81	CL					
15.81	16.46	Quartzite	As above		15.81	16.46	23003
16.46	16.65	CL			16.65	17.68	23004
16.65	16.67	Quartzite	As above				
16.67	16.93	CL					
16.93	17.68	Quartzite	As above, small 0.01m chlorite band post metamorphic at 16.87, cross-cutting fractures, chlorite limonite infilled, at 17.28				
17.68	17.69	CL					
17.69	18.29	Quartzite	Quartz-sericite-chlorite, well foliated, some minor cross-cutting quartz sweats, generally uniform composition.	F50°	17.69	18.29	23005

From	To	Rock Name	Description	CA	From	To	Sample N
18.29	18.32	CL					
18.32	18.94	Quartzite	As above, but slight brecciation at 18.94 with cross-cutting chlorite-limonite-filled fractures.	F10°	18.32	18.94	23006
18.94	18.98	CL					
18.98	19.61	Quartzite	Silicified quartz-sericite-chlorite, foliation still clear but more massive due to pervasive silicification. Occasional chlorite-limonite-filled fractures with more intense clotty limonite at 19.31.	F50°	18.98	19.61	23007
19.61	19.71	CL					
19.71	19.81	Quartzite	Slightly silicified quartz-chlorite-sericite		19.71	20.93	23008
19.81	19.96	CL					
19.96	20.93	Quartzite	As above				
20.93	21.63	(brecciated) quartzite	Moderately brecciated quartzite-chlorite-sericite, silicified. Silicification producting very quartz-rich sections with cross-cutting chlorite-limonite fractures.		20.93	21.63	23009
21.63	21.95	CL					
21.95	23.87	(brecciated) Quartzite	As above, in parts strong chloritisation, though always >50% quartz	Fol 45°	21.95	22.95	23010
				Fract 85°	22.95	23.87	23011
23.87	24.70	CL					
24.70	27.40	(brecciated) Quartzite	As above, slightly more brecciated at 25.6, 26.3. Minute specks cpy at 25.6 + unidentified black mineral ?Mn.	Fract 80°	24.70	25.70	23012
				fol 30°	25.70	26.70	23013
27.40	29.46	Schist	Quartz-chlorite(sericite) schist, silicified, slightly fract.		26.70	27.40	23014

From	To	Rock Name	Description	CA	From	To	Sample
			fractures chloritic; limonitic. Strong narrow 0.01m limonite fractures + ep + chlorite(boxwork=?cpy) at 28.80	fol 25°	27.40 28.40	28.40 29.46	23015 23016T
29.46	33.32	Schist	More chloritic schist(chlorite,quartz(sericite) schist) strongly foliated, occasional quartz veins, more chloritised with limonitic fractures 31.07,31.57,32.62, 33.02	frac 60°	29.46 30.46 31.46 32.46	30.46 31.46 32.46 33.32	23017 23018 23019 23020
33.32	34.27	Chloritic Schist	Heavily chloritised schist with good foliation, moderately fractured + limonite, unidentified pink mineral, h<5.	fol 50°	33.32	34.27	23021 T
34.27	34.42	Chloritic Schist (brecciated)	Chloritic schist, silicified and fractured. Fractures limonitic.	frac 75°	34.27	34.42	23022
34.42	34.98	Chloritic Schist	As above 33.32-34.27		34.42	34.98	23023T
34.98	35.41	(brecciated) Quartzite	Quartz-chlorite-sericite insipient brecciation fractures with limonite		34.98	35.41	23024 T
35.41	35.44	QV & cassiterite	QV+ limonite + epidote + chlor + calcite? +Goethite + cassiterite + malachite. Cass <0.5%		35.41	35.44	23025
35.44	35.64	QV & chloritised schist	Narrow QV's with interspaced chloritised schist	fol 30°	35.44 35.64	35.64 36.64	23026 23027T
35.64	37.02	Quartzite	Quartz-chlorite- moderately chloritised in places,moderately fractured with limonite + calcite + (Ep) fractures. chloritisation decrease down hole.	fract 70°	36.64	37.02	23028T

From	To	Rock Name	Description	CA	From	To	Sample N
37.02	37.17	Q.V.	Q.V. yellowy with chloritic fractures	fol 50°	37.02	37.17	23029
37.17	38.34	Quartzite	Quartz-chlorite- more siliceous than above Moderately fractured, bands of pink ? garnets		37.17	38.34	23030T
38.34	38.44	Chloritised schist	Heavily chloritised schist, structure still viz.		38.34	39.34	23031T
				fol 20°	39.34	40.34	23032
38.44	41.03	(Chloritised) schist	Quartz chlorite(sericite)schist; moderately chloritised, weakly fractured, occasional Q.V.S.,< 0.01m		40.34	41.53	23033T
41.03	41.53	Chloritised schist	Heavily chloritised schist, weakly fractured	fol 20°			
41.53	41.76	CL					
41.76	42.46	Quartzite (chloritised)	Partly chloritised Quartzite-chlorite-(sericite)- very chloritic basal 0.01m, moderately fractured with fracture fill of quartz, limonite + manganese		41.76	42.46	23035
42.46	43.03	CL					
43.03	43.08	Chlorite breccia	Three pieces only massive "chloritite"		43.03	43.08	23036
43.08	46.07	CL					
46.07	46.23	Chlorite breccia + Q.V.	v. broken chlorite, chlorite schist + Q.V.		46.07	46.23	23037
46.23	49.88	CL					
49.88	51.00	(brecciated) Quartzite	Quartz -chlorite-sericite, heavily fractured, incipient brecciation.Q. veining at top of section, several strong 0.01 m chlorite-limonite veinlets, no viz. min.	fract 60° fol 20°	49.88	51.94	23038

From	To	Rock Name	Description	CA	From	To	Sample N
51.00	51.64	Quartzite	Quartzite+chlorite, silicified slightly fractured, fractures limonite-coated. Increasingly altered to following section.	fol 15° fract 80°			
51.64	51.94	fractured Quartzite	Grades to a more fractured, more chloritic quartzite, <0.01m chlorite-limonite veinlet	65°			
51.94	52.14	chloritised schist	strongly chloritised 60% chlor., 40% quartzite, schistocity still viz. Clotty limonite vugs, cpy + ? sphal + ? manganese in fractures and dissem. 0.5% sulphides.	fract variable 90-50°	51.94	52.14	23040
52.14	52.44	Quartz breccia	Breccia, quartz frags. cemented by chlorite-sericite 80% frag. 20% matrix, no viz. min.,upper contact sharp at 45° lower contact obscured by broken core		52.14	52.67	23041
52.44	52.67	(chloritised) Quartzite	slightly chloritised, silicified, moderately fractured	fol 22°			
52.67	54.24	CL					
54.24	54.45	Quartz breccia	Breccia as above. Core v. broken		54.24	54.45	23042
54.45	54.75	Schist (chloritised)	Silicified (chloritised) quartz -chlorite schist moderately fractured		54.45	54.75	23043
54.75	55.11	CL					
55.11	55.21	Quartz breccia	As above but 90% qtz, 10% chlor, occasional small malachite specks		55.11	56.00	23044
55.21	55.83	CL					
55.83	56.00	Quartz breccia	As above. Malachite specks in fractures				

From	To	Rock Name	Description	CA	From	To	Sample
56.00	58.62	CL					
58.62	58.82	Quartzite	v. broken core, qtz.-chlor.-ser.- Little evidence of chloritisation or brecciation		58.62	58.82	23045
58.82	60.89	CL					
60.89	61.39	Quartzite	Quartzite-chlor.-ser. No viz. chloritisation. Fracturing weak, occasional fractures carry limonite + qtz.		60.89	61.39	23046
61.39	61.49	QV	Top contact 45°, clean qtz. with chloritic selvages.		61.39	61.49	23047
61.49	61.59	Mud seam	Grey mud with fine schist particles				
61.59	62.19	Quartzite	Qtz.-chlor.-sericite, weakly fractured, fractures carry limonite + manganese, slightly siliceous at top and bottom of section.		61.49	61.59	23048
				fol 20°	61.59	62.19	23049
62.19	62.28	CL					
62.28	63.09	Quartzite	Moderately fractured, slightly siliceous qtz.-ser.-chlor. fract. occasionally vuggy with limonite + qtz. No viz. min.	fract 70°	62.28	63.09	23050
63.09	63.29	Quartzite (brecciated)	V. broken quartzite + mud seam, possible breccia zone	fol 35°	63.09	63.29	23051
63.29	64.92	CL		fract 50°			
64.92	65.82	Quartzite	Silicified slightly chlor., moderately fractured. fracture fill is chlorite + QV + limonite. No viz. min.		64.92	65.82	23052
65.82	65.92	Quartz Breccia	Brecciated quartzite, weak chlor.,manganiferous cavities	fol 15°	65.82	65.92	23053
				fract 70°			
65.92	66.14	CL					

From	To	Rock Name	Description	CA	From	To	Sample N
66.14	66.34	Quartz breccia	Breccia as above		66.14	66.34	23054
66.34	66.44	Schist	Dark chlorite (qtz.-ser.) schist. No appreciable post metamorphic chlorite. V. well foliated		66.34	66.44	23055
66.44	67.67	CL					
67.67	68.27	Schist	Chlorite schist as above	fol 40°	67.67	68.27	23056
68.27	69.19	CL					
69.19	70.10	Quartzite	Moderately fractured interbedded (chloritised) chlorite quartzite and quartz-chlorite-quartzite. Fractures carry qtz. + limonite + chlorite with small specks py + sphal. in fractures and disseminated into chloritic parts of quartzite		69.19	70.10	23057
70.10	72.00	(brecciated) quartzite	v. fractured partly brecciated qtz.-chlor.(ser). Fractures carry chlorite + limonite.		70.10	71.10	23058
				fract. 80°	71.10	72.00	23059
72.00	72.50	brecciated quartzite	Brecciated quartz-chlorite. Fractures abundant - limonite filling. General fracture trend - 80°	fol 15°	72.00	72.50	23060
72.50	72.70	Quartzite	Fractured quartz-chlorite		72.50	72.70	23061
72.70	73.05	CL		Fract.			
73.05	75.12	Quartzite	Fractured qtz.-chlor.-ser. fractures infrequent but strong, carry chlor. + qtz. + limonite 74.32 narrow <0.01m fractures carry 30% py 60% Chlor 10% limonite	80°	73.05	74.05	23062
				Fol 30°	74.05	75.12	23063
75.12	75.29	CL					

From	To	Rock Name	Description	CA	From	To	Sample N
75.29	75.64	Schist	Qtz.-chlor.-(ser.) schist		75.29	75.64	23064
75.64	75.69	Chlorite schist	Strongly chloritised schist		75.64	75.69	23065
75.69	76.22	CL					
76.22	76.77	Quartzite	Qtz.-chlor.-ser. - little fracturing, little alteration	fol 30°	76.22	76.77	23066
76.77	77.90	CL					
77.90	78.50	Quartzite	As above		77.90	78.50	23067
78.50	78.80	Quartz breccia	brecciated quartzite		78.50	78.80	23068
78.80	79.20	Quartzite	Quartzite as above		78.80	79.20	23069
79.20	79.30	Quartz breccia	brecciated quartzite		79.20	79.30	23070
79.30	80.72	Chloritised quartzite	fractured chloritic quartzite, fractures infilled with clayey material and carrying mal. + cpy at 79.50 and cpy at 79.80m + cpy at 80.40m	fract 85° fol 40°	79.30	80.72	23071
80.72	81.39	Chloritised quartzite	chloritised qtz.-chlor.-ser. well foliated, chlorite increases to base of section		80.72	81.39	23072
81.39	81.79	Breccia	chlorite qtz. breccia, qtz. + chlorite fragments 30% chlorite matrix 70% cpy + mal. in fractures = ± 0.1%		81.39	81.79	23073
81.79	82.91	CL					
82.91	83.21	Chlorite schist	chloritised chlor.-qtz.-schist well foliated	fol 35°	82.91	83.21	23074
83.21	83.39	CL					

From	To	Rock Name	Description	CA	From	To	Sample
83.39	83.64	Chlorite schist	as above		83.39	83.64	23075
83.64	84.49	CL					
84.49	84.79	Chloritised quartzite	chloritised chloritic quartzite	fol 25°	84.49	84.79	23076
84.79	85.95	CL					
85.95	86.15	Chloritised quartzite	as above	fract. 85°	85.95	86.15	23077
86.15	86.45	Brecciated quartzite	brecciated chloritic quartzite well fractured. Fractures filled with calcite + clay mins, no viz. min.		86.15	86.45	23078
86.45	87.48	CL					
87.48	87.98	Chloritised quartzite	slightly fractured, QV's at base of section < 0.01m		87.48	87.98	23079
87.98	88.14	CL					
88.14	89.29	Chloritised quartzite	slightly fractured chlor. quartzite becoming more intensely fractured and chloritised to base. Fractures limonitic and chloritic		88.14	89.29	23080
89.29	89.94	Brecciated quartzite	Highly fractured brecciated quartzite. Fractures < 0.01m with chlor.+limonite. No viz. min. except towards base, patches cpy in chlorite veinlets.		89.29	89.94	23081
89.94	90.14	Chlorite breccia	Total breccia 10% qtz. 90% chlorite, cpy., mal., az. in patchy vugs and veinlets throughout. Original content 2% sulphide.	fol 45°	89.94	90.14	23082

From	To	Rock Name	Description	CA	From	To	Sample N
90.14	90.90	Brecciated quartzite	As above 89.29-89.94 with cpy in chloritic fractures at top HOLE STOPS 90.90 m.	fract 70°	90.14	90.90	23083

CORTIN JOINT VENTURE

HOLE : EPD - 79 - 01 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 1

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.) Sn	W	Cu	Pb	Zn	Ag	Mo
2300	7.81	7.91	0.10		10	5	70	500	4300	3.7	3
CL	7.91	12.37	4.46								
2301	12.37	12.57	0.20		6	12	188	62	600	2.3	10
CL	12.57	14.74	2.17								
2302	14.74	15.74	1.00		145	3	73	20	465	0.5	2
CL	15.74	15.81	0.07								
23003	15.81	16.46	0.65		5	3	40	12	310	0.8	2
CL	16.46	16.65	0.19								
23004	16.65	16.67	0.02		40	4	152	20	400	2.5	2
	16.93	17.68	0.75								
CL	16.67	16.93	0.26								
CL	17.68	17.69	0.01								
23005	17.69	18.29	0.60		5	3	55	13	350	1.0	2
CL	18.29	18.32	0.03								
23006	18.32	18.94	0.62		7	4	52	22	285	2.3	2
CL	18.94	18.98	0.04								
23007	18.98	19.61	0.63		L5	8	40	11	210	0.9	2
CL	19.61	19.71	0.10								
23008	19.71	20.93	1.22		10	6	68	8	275	0.5	2
23009	20.93	21.63	0.70		9	6	32	10	145	1.8	3
CL	21.63	21.95	0.32								
23010	21.95	22.95	1.00		133	6	157	12	555	1.0	2
23011	22.95	23.87	0.92		680	6	106	22	275	0.5	1
CL	23.87	24.70	0.83								
23012	24.70	25.70	1.00		97	7	90	15	375	1.2	2
23013	25.70	26.70	1.00		98	7	148	21	990	7.4	2

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 01 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 2

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (In p.p.m.) Sn	W	Cu	Pb	Zn	Ag	Mo	
23014	26.70	27.40	0.70		640	9	40	21	250	0.3	2	
23015	27.40	28.40	1.00		68	4	89	8	385	2.0	2	
23016	28.40	29.46	1.06	0.13	1160	8	395	10	565	13.2	2	
23017	29.46	30.46	1.00		20	3	141	82	370	2.0	2	
23018	30.46	31.46	1.00		15	4	200	19	390	6.6	2	
23019	31.46	32.46	1.00		25	4	95	30	300	2.5	3	
23020	32.46	33.32	0.86		87	6	268	10	755	4.1	1	
23021	33.32	34.27	0.95	1.25	G2000	20	665	112	1000	31.0	4	1.03% Sn / 0.437 oz. Ag / 6.02 m
23022	34.27	34.42	0.15		52	6	655	121	715	31.0	2	
23023	34.42	34.98	0.56		211	4	425	30	720	17.3	4	
23024	34.98	35.41	0.43	2.46	G2000	6	132	49	395	5.2	5	1.94% Sn / 0.440 oz. Ag / 1.66 m
23025	35.41	35.44	0.03	25.70	G2000	10	605	19	880	15.7	4	
23026	35.44	35.64	0.20	4.20	G2000	8	393	30	545	11.7	2	
23027	35.64	36.64	1.00	0.56	G2000	3	180	10	540	17.8	4	0.80% Sn / 0.337 oz. Ag / 8.21 m
23028	36.64	37.02	0.38		80	6	165	40	500	17.4	11	
23029	37.02	37.17	0.15	0.07	1040	5	120	86	105	0.7	8	
23030	37.17	38.34	1.17	0.78	G2000	7	192	10	455	6.2	3	
23031	38.34	39.34	1.00	0.90	G2000	6	198	27	480	2.2	4	
23032	39.34	40.34	1.00		450	7	181	11	450	2.0	4	0.16% Sn / 0.064 oz. Ag / 2.19 m
23033	40.34	41.53	1.19	0.27	2300	5	150	10	425	2.0	4	
CL	41.53	41.76	0.23									
23035	41.76	42.46	0.70		212	4	290	61	500	7.4	5	
CL	42.46	43.03	0.57									
23036	43.03	43.08	0.05		90	4	276	27	530	4.0	5	
CL	43.08	46.07	2.99									
23037	46.07	46.23	0.16		165	4	223	40	500	8.0	4	

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 01 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 3

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag	Mo				
CL	46.23	49.88	3.65												
23038	49.88	51.94	2.06		70	4	215	11	435	2.6	2				
23040	51.94	52.14	0.20		57	6	5850	20	4150	21.5	4				
23041	52.14	52.67	0.53		680	4	251	10	370	1.0	3				
CL	52.67	54.24	1.57												
23042	54.24	54.45	0.21		20	3	415	10	435	0.2	2				
23043	54.45	54.75	0.30		21	4	131	8	310	0.3	2				
CL	54.75	55.11	0.36												
23044	55.11	56.00	0.89		20	4	178	10	280	0.6	2				
CL	56.00	58.62	2.62												
23045	58.62	58.82	0.20		26	4	200	12	455	5.7	1				
CL	58.82	60.89	2.07												
23046	60.89	61.39	0.50		15	4	66	31	355	0.5	6				
23047	61.39	61.49	0.10		15	3	21	10	805	0.5	3				
23048	61.49	61.59	0.10		33	12	110	52	725	1.5	4				
23049	61.59	62.19	0.60		23	4	60	20	285	0.5	2				
CL	62.19	62.28	0.09												
23050	62.28	63.09	0.81		57	4	58	16	370	0.3	3				
23051	63.09	63.29	0.20		22	14	57	10	560	0.5	2				
CL	63.29	64.92	1.63												
23052	64.92	65.82	0.90		45	4	41	12	155	0.5	4				
23053	65.82	65.92	0.10		12	4	40	10	195	0.5	1				
CL	65.92	66.14	0.22												
23054	66.14	66.34	0.20		15	4	28	8	190	0.6	2				
23055	66.34	66.44	0.10		7	4	36	12	375	0.5	1				
CL	66.44	67.67	1.23												

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 01 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 4

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag	Mo				
23056	67.67	68.27	0.60		15	3	95	23	555	1.0	1				
CL	68.27	69.19	0.92												
23057	69.19	70.10	0.91		187	2	68	8	490	0.5	2				
23058	70.10	71.10	1.00		325	4	135	44	510	1.1	1				
23059	71.10	72.00	0.90		500	4	150	15	535	0.9	1				
23060	72.00	72.50	0.50		33	4	241	23	520	0.7	2				
23061	72.50	72.70	0.20		10	4	375	25	310	0.5	2				
CL	72.70	73.05	0.35												
23062	73.05	74.05	1.00		118	4	555	70	280	3.5	2				
23063	74.05	75.12	1.07		152	4	435	32	720	2.5	3				
CL	75.12	75.29	0.17												
23064	75.29	75.64	0.35		16	4	105	20	815	1.0	3				
23065	75.64	75.69	0.05		19	6	115	30	800	2.9	4				
CL	75.69	76.22	0.53												
23066	76.22	76.77	0.55		32	5	86	39	1170	1.2	2				
CL	76.77	77.90	1.13												
23067	77.90	78.50	0.60		18	4	60	26	680	1.6	2				
23068	78.50	78.80	0.30		17	5	118	131	480	4.7	2				
23069	78.80	79.20	0.40		16	4	43	37	700	0.7	1				
23070	79.20	79.30	0.10		29	3	35	22	255	1.5	5				
23071	79.30	80.72	1.42		24	4	90	31	975	1.2	2				
23072	80.72	81.39	0.67		28	3	36	22	435	0.5	3				
23073	81.39	81.79	0.40		530	3	1485	124	600	16.5	1				
CL	81.79	82.91	1.12												
23074	82.91	83.21	0.30		11	6	57	46	555	2.6	1				
CL	83.21	83.39	0.18												

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 01 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 5

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag	Mo				
23075	83.39	83.64	0.25		10	5	23	10	500	0.8	2				
CL	83.64	84.49	0.85												
23076	84.49	84.79	0.30		8	5	46	8	350	0.7	2				
CL	84.79	85.95	1.16												
23077	85.95	86.15	0.20		6	4	122	6	225	1.4	2				
23078	86.15	86.45	0.30		33	3	270	14	730	1.0	3				
CL	86.45	87.48	1.03												
23079	87.48	87.98	0.50		11	3	134	9	250	0.9	4				
CL	87.98	88.14	0.16												
23080	88.14	89.29	1.15		6	4	352	30	315	1.5	3				
23081	89.29	89.94	0.65		55	8	1225	27	385	25.0	2				
23082	89.94	90.14	0.20		53	10	1000	134	550	22.5	4				
23083	90.14	90.90	0.76		116	10	2250	51	410	8.5	2				
	END OF HOLE														

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 02 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 1

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.) Sn	W	Cu	Pb	Zn	Ag	
23084	5.02	6.32	1.30		180	5	200	58	560	4.7	
23085	6.32	6.64	0.32	0.22	1700	8	735	40	1400	6.7	0.249% Sn 0.225 oz. Ag 0.69 m (incl. 0.07m CL)
CL	6.64	6.71	0.07								
23086	6.71	7.01	0.30	0.28	1920	6	680	37	1325	7.5	
23087	7.01	7.59	0.58		23	3	133	43	450	2.0	
23088	7.59	7.89	0.30		50	9	230	63	770	4.2	
23089	7.89	8.69	0.80		105	8	250	85	640	6.4	
CL	8.69	8.89	0.20								
23090	8.89	9.19	0.30		140	20	325	278	790	9.2	
CL	9.19	9.75	0.56								
23091	9.75	9.93	0.18		92	7	112	50	380	3.3	
23092	9.93	10.54	0.61		135	12	320	510	840	16.3	
CL	10.54	11.12	0.58								
23093	11.12	11.78	0.66		120	8	500	1045	800	18.1	0.31% Sn 0.649 oz. Ag 10.39 m (incl. 2.77 m CL)
CL	11.78	11.96	0.18								
23094	11.96	12.13	0.17		560	13	300	43	660	4.2	
23095	12.13	13.13	1.00		33	5	100	23	355	1.4	
23096	13.13	13.51	0.38		28	5	128	23	490	3.1	
23097	13.51	13.56	0.05	1.06	G2000	6	540	35	1225	45.0	
CL	13.56	14.02	0.46								
23098	14.02	14.43	0.41		62	5	380	20	885	3.8	
CL	14.43	14.83	0.40								
23099	14.83	14.95	0.12		820	13	2375	20	910	65.0	
23100	14.95	15.25	0.30	0.27	G2000	10	480	13	530	5.4	
23101	15.25	15.45	0.20		29	17	975	30	1150	3.2	
23102	15.45	15.83	0.38	0.41	G2000	13	1475	40	1300	2.7	

090758

CCH RESOURCES LTD.
DIAMOND DRILL LOG

VENTURE CORTIN

PROJECT

PROPERTY EPD

LOCATION

GRID

Location 100 + 30.3N

Section 102 + 22.8W

Bearing 353 True

Dip -47

Length 50.31 m

TESTS

TROPARI

Depth	Mag Brg	Corr Brg	Dip
30.48 m			53
50.29 m			56

ACID

Dip²
45
48

SURVEY

Latitude

Departure

Elevation

Bearing

Dip

PHYSICAL DATA

Core Size AQ to end , to

Date Started August 21, 1979

Date Completed August 23, 1979

Casing Pulled yes

Core Recovery 74%

Cemented no

Core Location: In storage at Oliver Creek camp site 115-P-15

Logged by A. Woodsend

Contractor Canico

NOTES: 1) Give reference - Magnetic, Grid, True

2) Corrected dip.

DDH No. EPD 79-02

CCH RESOURCES LTD. - DIAMOND DRILL LOG

From	To	Rock Name	Description	CA	From	To	Sample
0	5.02	Casing	Through overburden				
5.02	6.32	Quartzite	Well foliated, occasional more chloritic bands, little introduced chlorite except in tension gashes/joints that are chlorite-limonite filled.		5.02	6.32	23084
6.32	6.64	Chlorite Breccia	70% chlor. qtz. fragments, vuggy limonitic patches/veins	fol 75°	6.32	6.64	23085
6.64	6.71	CL		fract 20°			
6.71	7.01	Chlorite Breccia	As above, one 0.01 m section = qtz. chlor. breccia 75% quartz fragments		6.71	7.01	23086
7.01	7.59	Quartzite	As in first section		7.01	7.59	23087
7.59	7.89	Chlorite Breccia Quartz Breccia	Very broken, some chloritite		7.59	7.89	23088
7.89	8.69	Chlorite Breccia + Chloritite			7.89	8.69	23089
8.69	8.89	CL					
8.89	9.19	Chlorite Breccia	Very broken, some chloritite with a possible band of moderately altered quartzite in centre.		8.89	9.19	23090
9.19	9.75	CL					
9.75	9.93	Quartzite sheared	Little chloritisation , incipient brecciation		9.75	9.93	23091
9.93	10.54	Chloritite, Chlorite breccia + quartz breccia	Dominantly chlor. breccia, limonitic vugs		9.93	10.54	23092
10.54	11.12	CL					

DDH No. EPD 79-02

rom	To	Rock Name	Description	CA	From	To	Sample N
1.12	11.78	Chloritite , Chlorite Breccia	With one 0.01m band qtz.-breccia, probable viz. cass. in chlorite breccia fol.	15°	11.12	11.78	23093
1.78	11.96	CL					
1.96	12.13	Chlorite quartz ser. schist	Intensely chloritised and minor chloritised chloritic quartzite becoming brecciated in places fol.	30-35°	11.96	12.13	23094
2.13	13.51	Quartzite	Slightly fractured, more chloritic for 0.1 m in centre fol.	20°	12.13	13.13	23095
3.51	13.56	Chloritite	?viz. cassiterite, contact sharp, parallel to foliation fol.	23°	13.13	13.51	23096
3.56	14.02	CL	Except for a few pebbles (chlor.) quartzite		13.51	13.56	23097
4.02	14.43	(chlorite) quartzite	Broken section dominantly (chlor.) quartzite lenses chlor. schist fol.	25°	14.02	14.43	23098
4.43	14.83	CL					
4.83	14.95	Chlorite Breccia	Chloritite breccia		14.83	14.95	23099
4.95	15.25	Chlorite schist	V. chloritic chloritised schist limonitic veins fol.	15°	14.95	15.25	23100T
5.25	15.45	Chlorite breccia	Rusty vuggy chloritic breccia, some qtz. fragments limonite + calcite		15.25	15.45	23101
5.45	15.83	Chlorite schist	Highly chloritised chloritic schist fol.	20°	15.45	15.83	23102
5.83	16.46	CL			16.46	17.46	23103
6.46	17.75	Chlorite schist	Highly chloritised chloritic schist, foliation preserved though insipient brecciation in places fol.	15°	17.46	17.75	23104
7.75	17.95	Chlorite breccia	Vuggy rusty chloritic breccia, some qtz. fragments Limonite, cassiterite ?		17.75	17.95	23105

From	To	Rock Name	Description	CA	From	To	Sample
17.95	18.05	Gouge zone breccia	Rusty breccia, sheared fault zone, appears to dip steeper than schistosity, but same direction		17.95	18.05	23106
18.05	18.30	Breccia quartzite (chlorite)	Brecciated (chloritised) quartzite with one narrow < 0.01m chlor. schist band. All parallels schistosity	Fol 20°	18.05	18.30	23107
18.30	18.70	Chlorite Breccia	Chlorite breccia, some foliation preserved fol.	15°	18.30	18.70	23108
18.70	18.90	CL					
18.90	19.30	Chlorite Breccia	V. broken, angular quartz fragments 20%, chloritic matrix 80% fractures limonite + Mn coated		18.90	19.30	23109T
19.30	19.50	Quartz (chlorite) breccia	Quartz breccia, 90% quartz fragments 10% chloritic matrix		19.30	19.50	23110T
19.50	19.70	Chlorite Breccia	Chlorite breccia as before, fragments aligned suggestive of foliation	fol 40°	19.50	19.70	23111
19.70	20.02	CL					
20.02	20.32	Chlorite Breccia	As before, possible foliation	24°	20.02	20.32	23112
20.32	20.42	(Brecciated) (chlorite) quartzite	Chloritic quartzite foliated insipient brecciation fol.	50°	20.32	20.42	23113
20.42	20.75	CL					
20.75	20.85	Brecciated quartzite	Quartz breccia 10% chlorite		20.75	20.85	23114
20.85	21.95	CL					
21.95	22.10	Quartzite breccia chlorite	Quartz breccia with 30% chlorite. No viz. structure		21.95	22.10	23115

From	To	Rock Name	Description	CA	From	To	Sample
22.10	22.50	Chlorite Breccia	75% chlorite, 25% quartzite v. broken		22.10	22.50	23116T
22.50	22.81	CL					
22.81	23.27	CL			23.27	23.37	23117T
23.27	23.37	Chlorite breccia	As above		23.37	23.47	23118
23.37	23.47	Chloritised Qtz. breccia	Shear or fault zone, vuggy, limonitic	contact 35			
23.47	25.98	Chlorite breccia	V. broken, 80% chlorite, 20% Qtz., limonite on fractures, poss. foliation	fol. 25°	23.47 24.47 25.47	24.47 25.47 25.98	23119 23120 23121T
25.98	26.52	CL					
26.52	26.53	Qtz. breccia	Two pieces only, Qtz. 70%, chlorite 20%,limonite 10%		26.52	26.53	23122
26.53	26.87	CL					
26.87	26.97	Qtz. breccia	No viz min. Qtz. 80%, chlorite 10%, limonite 10%		26.87	26.97	23123
26.97	27.50	CL					
27.50	27.60	(Chloritised) Qtz. breccia	75% Qtz, 20% chlorite, 5% limonite, v. broken, cpy + mal specks and coatings		27.50	27.60	23124
27.60	28.04	CL					
28.04	28.44	Qtz. breccia	Very broken, 75% Qtz., mal + Az on fract. planes, no viz. structure, some chlorite breccia selvages, but 90% Qtz. breccia		28.04	28.44	23125
28.44	29.26	CL					

From	To	Rock Name	Description	CA	From	To	Sample No.
29.26	29.36	Qtz. breccia	As above, Mal + Az on fractures, some sign of chlorite breccia at end in ground core		29.26	29.36	23126
29.36	30.41	CL					
30.41	30.51	Chloritised Qtz. breccia	Probably Qtz. breccia as above, but 2-3 fragments chloritised Qtz. breccia. One fragment Q.v.		30.41	30.51	23127
30.51	31.09	CL					
31.09	31.24	Qtz. breccia + chlor. breccia	V. broken, probably 50% Qtz. breccia, 50% chlorite breccia, maybe some chloritised chlorite schist.		31.09	31.24	23128
31.24	32.33	CL					
32.33	32.39	Qtz. breccia	Qtz. 90%, chlorite 10%		32.33	32.39	23129
32.39	33.17	Chlorite breccia	Foliation still viz., 75% chlorite		32.39	33.17	23130
33.17	33.18	Chlor. schist + chloritic Qtzite	50% chloritic chlorite schist, 50% chloritised Qtzite.	fol. 38°	33.17	33.18	23131
33.18	35.74	Qtz. breccia	60% Qtz., 40% chlorite, post breccia fractures carry carbonate + chlorite	fol. 45° fract-80-90°	33.18 34.18 35.18	34.18 35.18 35.74	23132 23133 23134
35.74	36.88	Qtz. breccia + chlor. schist	Dominantly Qtz. breccia with sections chloritised chloritic schist	fol. 45° fol. 25°	35.74	36.88	23135

From	To	Rock Name	Description	CA	From	To	Sample No.
36.88	37.78	(Chlor) Qtzite	Well foliated chloritised Qtzite, occasional vuggy open fractures with Qtz. xstals		36.88	37.78	23136
37.78	38.10	CL					
38.10	39.71	(Chlor) Qtzite	As above, partly brecciated in places	fol. 25°	38.10 39.10	39.10 39.71	23137 23138
39.71	40.69	Qtz. breccia	Qtz 75%, brecciated partly, some totally vuggy fractures carbonate filled or chlorite filled, v. occasional specks Py + Po.		39.71	40.69	23139
40.69	41.09	Qtz. Chlor. breccia	60% Qtz., 40% chlorite, well brecciated, some Qv.		40.69	41.09	23140
41.09	41.30	CL					
41.30	43.28	(brecciated) Qtzite	Insipient brecciation, well fractured, foliation still viz., occasional open veins parallel to foliation with Qtz +Mn ?	fol. 50°	41.30 42.30	42.30 43.28	23141 23142
43.28	44.08	Chloritised schist	Well chloritised chloritic schist, grey specks unknown min., some patches breccia with limonitic vugs, occasional Qv.	fol. 25°	43.28	44.08	23143
44.08	45.11	(Chloritised) Qtzite	Qtzite with minor chloritisation, well fractured or sheared, occasional insipient brecciation.	fol. 30°	44.08	45.11	23144
45.11	47.62	(Brecciated) (Chloritised) Qtzite	Qtzite, moderately chloritised, moderately brecciated, in places well brecciated. Fractures filled with chlorite-sericite-carbonate.	fol. 20° fract. variable	45.11 46.11 47.11	46.11 47.11 47.62	23145 23146 23147
47.62	49.38	Chloritised Chloritic schist	Thoroughly chloritised chloritic schist, foliation still clear, pale speckled min, some brecciation at base.	fol. 5-10°	47.62 48.62	48.62 49.38	23148 23149

From	To	Rock Name	Description	CA	From	To	Sample No.
49.38	49.80	(Chloritised) Qtzite	Well foliated, 75% Qtz.	fol. 15°	49.38	49.80	23150
49.80	50.31	CL					
			HOLE ENDS 50.31 m.				

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 02 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 2

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.) Sn	W	Cu	Pb	Zn	Ag
CL	15.83	16.46	0.63							
23103	16.46	17.46	1.00		1050	11	550	40	800	15.0
23104	17.46	17.75	0.29		46	8	267	23	550	5.7
23105	17.75	17.95	0.20	0.29	G2000	16	1275	92	1350	5.5
23106	17.95	18.05	0.10		110	13	4225	362	2400	65.0
23107	18.05	18.30	0.25		55	8	415	81	655	7.5
23108	18.30	18.70	0.40	1.14	G2000	28	1350	200	1475	23.2
CL	18.70	18.90	0.20							
23109	18.90	19.30	0.40	1.02	G2000	12	1700	500	2500	61.0
23110	19.30	19.50	0.20	4.76	G2000	4	950	322	1825	48.0
23111	19.50	19.70	0.20	0.15	1240	13	3100	1970	1670	181.37
CL	19.70	20.02	0.32							
23112	20.02	20.32	0.30	0.37	G2000	13	2625	465	2950	39.0
23113	20.32	20.42	0.10		110	8	500	70	735	3.9
CL	20.42	20.75	0.33							
23114	20.75	20.85	0.10		42	6	120	14	190	0.6
CL	20.85	21.95	1.10							
23115	21.95	22.10	0.15		15	14	122	10	185	0.5
23116	22.10	22.50	0.40	0.29	G2000	10	240	13	590	0.7
CL	22.50	23.27	0.77							
23117	23.27	23.37	0.10	0.46	G2000	12	655	33	1125	5.8
23118	23.37	23.47	0.10		520	10	7100	33	4260	13.8
23119	23.47	24.47	1.00		750	32	1550	21	1850	6.8
23120	24.47	25.47	1.00		700	40	2985	96	2175	48.0
23121	25.47	25.98	0.51	0.41	G2000	26	1450	20	2425	11.4
CL	25.98	26.52	0.54							

0.14% Sn
0.418 oz. Ag
3.12 m (incl. 0.63m CL)

0.53% Sn
0.927 oz. Ag
5.49 m (incl. 1.15 m CL)

1.06% Sn
1.672 oz. Ag
2.37 m (incl. 0.52 m CL)

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 02

EPD CLAIMS - RESULTS OF 1979 DRILLING

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (In p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag					
23122	26.52	26.53	0.01	0.15	1460	12	1300	240	910	9.9					
CL	26.53	26.87	0.34												
23123	26.87	26.97	0.10		240	4	6950	420	2500	50.0					
CL	26.97	27.50	0.53												
23124	27.50	27.60	0.10		61	4	600	32	290	5.7					
CL	27.60	28.04	0.44												
23125	28.04	28.44	0.40		36	3	665	45	285	4.5					
CL	28.44	29.26	0.82												
23126	29.26	29.36	0.10		25	4	1165	58	260	5.8					
CL	29.36	30.41	1.05												
23127	30.41	30.51	0.10		10	4	170	60	685	1.4					
CL	30.51	31.09	0.58												
23128	31.09	31.24	0.15		5	4	45	23	300	0.7					
CL	31.24	32.33	1.09												
23129	32.33	32.39	0.06		13	4	13	30	290	0.5					
23130	32.39	33.17	0.78		20	5	13	145	720	5.6					
23131	33.17	33.18	0.01		190	6	60	307	850	12.0					
23132	33.18	34.18	1.00		310	7	157	410	610	27.0					
23133	34.18	35.18	1.00		160	6	188	153	680	7.2					
23134	35.18	35.74	0.56		860	5	109	60	445	2.3					
23135	35.74	36.88	1.14		115	7	41	50	355	4.1					
23136	36.88	37.78	0.90		5	6	52	34	380	1.0					
CL	37.78	38.10	0.32												
23137	38.10	39.10	1.00		10	4	58	56	525	1.3					
23138	39.10	39.71	0.61		30	4	60	72	725	1.6					
12139	39.71	40.69	0.98		820	5	89	200	375	6.3					

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 02 EPD CLAIMS - RESULTS OF 1979 DRILLING Sheet 4

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag					
23140	40.69	41.09	0.40	1.18	G2000	11	60	20	514	0.7					
CL	41.09	41.30	0.21												
23141	41.30	42.30	1.00		10	4	43	4	475	0.2					
23142	42.30	43.28	0.98		5	4	46	7	487	0.2					
23143	43.28	44.08	0.80		L5	6	23	3	519	0.3					
23144	44.08	45.11	1.03		35	5	23	3	450	0.3					
23145	45.11	46.11	1.00	1.16	G2000	9	90	8	401	0.5					
23146	46.11	47.11	1.00		950	8	100	38	375	1.9					
23147	47.11	47.62	0.51		10	4	97	9	418	0.3					
23148	47.62	48.62	1.00		8	4	123	10	475	0.2					
23149	48.62	49.38	0.76		5	4	133	5	249	1.5					
23150	49.38	49.80	0.42		58	4	90	7	359	0.2					
CL	49.80	50.31	0.51												
					HOLE ENDS 50.31 m.										

090758

CCH RESOURCES LTD.
DIAMOND DRILL LOG

VENTURE CORTIN

PROJECT

PROPERTY EPD

LOCATION

GRID

Location 99 + 82.0S

Section 102 + 19.2W

Bearing[1] 347 True

Dip -45.5

Length 92.05 m

TESTS

TROPARI

Depth	Mag Brg	Corr Brg	Dip
30.5 m			58
60.96m			52
91.44m			60

ACID

Dip[2]
50
44
52

SURVEY

Latitude

Departure

Elevation

Bearing

Dip

PHYSICAL DATA

Core Size AQ to end , to

Date Started August 24, 1979

Date Completed August 30, 1979

Casing Pulled yes

Core Recovery 82%

Cemented no

Core Location: In storage at Oliver Creek camp site 115-P-15

Logged by A. Woodsend

Contractor Canico

NOTES: 1) Give reference - Magnetic, Grid, True

2) Corrected dip.

DDH No. EPD 79-03

CCH RESOURCES LTD. - DIAMOND DRILL LOG

From	To	Rock Name	Description	CA	From	To	Sample
0	7.22	Overburden					
7.22	7.92	Quartz breccia	slightly brecciated in places quartzite, chloritic foliation well viz, one chloritic veinlet + py	fol 15°	7.22	7.92	23151
7.92	8.23	CL					
8.23	9.19	Quartzite (brecciated)	As above		8.23	9.19	23152
9.19	9.34	CL					
9.34	9.84	Quartzite-brecciated	Qtz. 80%, chlor. 20%, late stage chloritic X cut veinlets, well healed, few open spaces		9.34	9.84	23153
9.84	10.24	CL					
10.24	10.34	Quartzite-brecciated	As above		10.24	10.34	23154
10.34	10.59	CL					
10.59	10.89	Quartzite-brecciated	As above		10.59	10.89	23155
10.89	10.97	CL					
10.97	11.07	Quartzite-brecciated	As above with 10% sericite lower contact parallel to foliation = fol. 25°		10.97	11.07	23156
11.07	11.27	Chloritised schist	Felty chloritised chloritic schist	fol 25°	11.07	11.27	23157
11.27	11.35	Quartzite fractured	V. slight incipient brecciation of chloritic quartzite		11.27	11.35	23158

DDH No. EPD 79-03

From	To	Rock Name	Description	CA	From	To	Sample
11.35	11.59	Quartzite brecciated	Rusty-stained quartz breccia, v. little foliation viz., completely healed, < 10% chlor., clots po.		11.35	11.59	23159
11.59	11.74	Quartzite brecciated	No longer rusty but fragmented fractured quartz breccia		11.59	11.74	23160
11.74	11.81	CL					
11.81	11.91	Quartz breccia, chloritised	A few fragments chloritic quartz breccia ± 20% chlorite		11.81	11.91	23161
11.91	12.26	CL					
12.26	12.40	Quartz breccia, chloritised	As above		12.26	12.40	23162
12.40	12.50	CL					
12.50	12.65	Quartz breccia, chloritised	As above		12.50	12.65	23163
12.65	12.80	CL					
12.80	12.90	"?Greenstone" chloritised	Highly chloritised andesitic "greenstone" with ± 1% cpy contacts ground-massive-no fractures.		12.80	12.90	23164
12.90	12.96	CL					
12.96	13.16	Chloritised schist with, chloritised quartz breccia	V. broken fragments of chloritised chloritic schist with chloritised quartz breccia - some rusty chloritic X-cutting veinlets		12.96	13.16	23165
13.16	13.41	CL					

From	To	Rock Name	Description	CA	From	To	Sample
13.41	14.31	Quartzite (brecciated) chloritised	Partly brecciated sericitic chloritic quartzite, foliation strong, v. little fracturing. V Chloritic bands in places, rare introduced felty chloritic veinlets		13.41	14.31	23166
14.31	14.63	CL					
14.63	15.13	Quartzite (brecciated) chloritised	As above		14.63	15.13	23167
15.13	15.24	CL					
15.24	15.69	Chloritised quartz breccia	Well healed brecciated quartzite 60% quartz, 40% chlorite, faint fol. viz. but more brecciated than last section, some sericite, almost no fracturing	fol 15°	15.24	15.69	23168
15.69	15.94	?chloritised "greenstone"	Probably "greenstone", calcite-filled fractures,	fol 15°	15.69	15.94	23169
15.94	16.08	CL					
16.08	16.46	Chloritised breccia	Very brecciated 90% chlorite with rusty qtz.-calcite fractures and some sections that still look like "greenstone"		16.08	16.46	23170
16.46	16.71	CL					
16.71	16.91	Chloritised breccia	As above		16.71	16.91	23171
16.91	17.08	Chloritised quartz breccia	Partly brecciated quartzite with 20% chlorite, probably metamorphic, still some rusty qtz.-calcite fractures		16.91	17.08	23172
17.08	18.05	CL					
18.05	18.45	Quartzite	Fractured chloritic quartzite- faint signs of incipient brecciation, otherwise boring		18.05	18.45	23173

From	To	Rock Name	Description	CA	From	To	Sample
18.45	19.33	CL					
19.33	19.36	Quartzite	As above		19.33	19.36	
					19.56	19.86	23174
19.36	19.56	CL			20.30	20.80	
19.56	19.86	Quartzite	As above				
19.86	20.30	CL					
20.30	20.80	Quartzite	As above				
20.80	22.13	(Chloritised) sericite schist	Partly chloritised, foliation still well viz., qtz. frags. suggest ?tuff, fairly strong local variations in foliation angle, generally v. little fracturing, or introduced chlorite, 20% qtz.	fol 25°	20.80	21.80	23175
					21.80	22.13	23176
22.13	23.97	Quartzite	Generally >85% quartz, occasionally more schistose 30-35% chlor.-sericite, no fracturing, little viz. introduced chlorite	fol 5-30°	22.13	23.13	23177
23.97	24.16	CL					
24.16	28.34	(Chloritised) schist with (chloritised) quartzite	Dominantly slightly chloritised, chloritic schist with subdominant interbeds of (chloritic) quartzite some small sections show incipient brecciation, and occasional introduced chloritic veinlets		23.13	23.97	23178
				fol 18°	24.16	25.16	23179
				fol 35°	25.16	26.16	23180
					26.16	27.16	23181
					27.16	28.34	23182

From	To	Rock Name	Description	CA	From	To	Sample
28.34	29.25	Chloritic schist (brecciated) fractured	Heavily chloritised quartzite schist 80% chlor, up to 4% po + mag + minor cpy in blebs and veinlets, brecciated at base of section with narrow QV's and calcite	fol 25°	28.34	29.25	23183
29.25	29.85	Brecciated quartzite fractured, (chloritic)	Well fractured (chloritised) quartzite, fractures limonitic	fol 30°	29.25	29.85	23184
29.85	30.10	QV	Parallel to foliation, brownish, fractured, limonite-coated schist fragments		29.85	30.10	23185
30.10	30.60	(Brecciated) chloritised quartzite	Incip. brecciation, strong chloritisation, some sections 30-40% chlorite. Foliation still viz	fol 30°	30.10	30.60	23186
30.60	30.86	CL					
30.86	31.66	Chloritised brecciated quartzite	Strong brecciation of above, minor py, fractures limonite-stained, ?Mn?		30.86	31.66	23187
31.66	31.77	CL					
31.77	32.25	Brecciated sheared chloritised quartzitic schist	Strongly sheared quartzitic chloritised chlorite schist, calcite veins, zones heavy brecciation, mud seam at last 0.01 m of sect.		31.77	32.25	23188
32.25	32.56	CL					
32.56	33.36	Quartzite, brecciated fractured	fractured, partly brecciated quartzite, limonitic fract.	fol 10°	32.56	33.36	23189
33.36	33.45	CL					

From	To	Rock Name	Description	CA	From	To	Sample N
33.45	33.85	Quartzite fractured	Fractured chloritic quartzite	fract 85-90°	33.45	33.85	23190
33.85	34.00	Mud Seam	Grey- probably chloritic quartzite gouge zone		33.85	34.00	23191
34.00	34.14	CL					
34.14	36.12	Quartzite (chloritised)	Partly chloritised chloritic quartzite, no fractures in top 3/4 but last 0.5m increasing fractures.	fol 20°	34.14	35.14	23192
					35.14	36.12	23193
36.12	38.50	Fractured Quartzite chloritised	(brecciated) well fractured chloritic quartzite 75% quartz some strong chloritic veinlets. Brecciation generally parallel to schistocity.	fol. 20°	36.12	36.98	23194
			fract. variable	75-80°	36.98	37.98	23195
					37.98	38.50	23196
38.50	38.65	CL					
38.65	41.90	Quartzite (fractured) (chloritised)	Chloritic quartzite 75-85% quartz, well foliated. moderately fractured in places, fractures variable, usually chloritic, chlorite sections partially chloritised.	fol 35°	38.65	39.65	23197
					39.65	40.65	23198
41.90	42.04	CL			40.65	41.90	23199
42.04	43.16	(chloritised) chlor. quartz schist	Partly chloritised chlorite schist with quartzitic sections, well foliated	fol 30°	42.04	42.54	23200
					42.54	43.16	23201
43.16	44.93	Quartzite (chloritised)	Partly brecciated chloritic quartzite partly chloritised occasional limonite-chlorite fractures though generally fairly massive	fol 15°	43.16	44.16	23202
					44.16	44.93	23203

From	To	Rock Name	Description	CA	From	To	Sample No.
44.93	47.78	Quartzite (fractured) chloritised	Chloritised, slightly fractured chloritic quartzite	fol. 05°	44.93	45.93	23204
					45.93	46.93	23205
					46.93	47.78	23206
47.78	47.98	(Brecciated) Quartzite fractured chloritised	As above, but slightly brecciated + quartz rimmed vugs, no viz. min.		47.78	47.98	23207
47.98	49.74	(chloritised) schist	Partly chloritised chloritic schist with occasional late stage chlorite veins, some QV's parallel to schistocity, v. deformed in some sections.	fol. 05°	47.98	48.98	23208
					48.98	49.74	23209
					49.74	50.24	23210
49.74	51.00	Chloritised quartzite	Well chloritised, partly brecciated quartzite, limonitic veins, some v. rusty sections. Foliation still viz	fol. 10°	50.24	51.00	23211
51.00	51.60	Quartzite chloritised	Brecciated quartzite - not v. strong brecciation-chlorite ± 20%. Some strong veins chlorite.		51.00	51.60	23212
					51.60	52.60	23213
51.60	56.20	(Chloritised) quartzite	Partially chloritised incip. brecciated quartzite, occasional limonite fractures, generally boring.		52.60	53.60	23214
					53.60	54.60	23215
				fol. 10-15°	54.60	55.60	23216
					55.60	56.20	23217
56.20	56.74	Chloritised quartzite	Chloritised chlorite/sericite quartzite - dark green ± 60% qtz., well foliated, little fracturing	fol. 15°	56.20	56.74	23218
					56.85	57.85	23219
56.74	56.85	CL					
56.85	60.91	Chloritised schist	Well chloritised chlorite-sericite schist, probably less than 40% qtz., dark green, little fracturing.	fol. 10°	57.85	58.85	23220
					58.85	59.85	23221
					59.85	60.91	23222

From	To	Rock Name	Description	CA	From	To	Sample No.
60.91	61.57	CL					
61.57	64.19	Chloritic schist	As above, some evidence for increasing chloritisation and limonite fracturing down this section.	fol. 10°	61.57 62.57 63.57	62.57 63.57 64.19	23223 23224 23225
64.19	64.95	QV	Qtz. vein with fragments chlor. schists, well fractured by chlorite-limonite. Qtz. yellowy. Contact obscure, top probably CA 0°.	fol. 0°	64.19	64.95	23226
64.95	65.25	Chloritised quartzite	Well chloritised chloritic quartzite, moderately fractured.	fract. 90°	64.95	65.25	23227
65.25	65.48	CL					
65.48	66.38	Quartzite chloritised	Brecciated chloritised chloritic quartzite, vuggy patches general mottled appearance. 80% qtz., 20% chlor. with some sericite. Post brecciation fracturing, well-developed random orientation.		65.48	66.38	23228
66.38	67.18	Quartzite chloritised (+ sch.chlor.)	Dominantly well chloritised quartzite with 30% chloritised schist, moderately fract. + chlor. + lim., well foliated, specks unidentified speckled yellowy brown mineral.	fol. 15°	66.38	67.18	23229
67.18	68.22	Quartzite breccia	Brecciated quartzite- yellowy patches chloritised quartzite remaining, 90% qtz., 10% chlor., increasingly broken to end of section where 0.01-0.05 m blebs Po are in matrix, whole sect. fract. with vuggy limonitic chloritic ?Mn.		67.18	68.22	23230
68.22	68.58	CL					
68.58	68.88	Chlorite breccia	Chlor. 80%, qtz. less than 20% + cpy blebs + specks ± 1% sulphides. V. limonitic fractures.		68.58	68.88	23231

From	To	Rock Name	Description	CA	From	To	Sample No.
68.88	69.03	Brecciated quartzite chloritised	Highly chloritised brecciated chloritic quartzite. V. broken yellow stained + limonite.		68.88	69.03	23232
69.03	69.37	CL					
69.37	69.57	Brecciated quartzite	V. broken - Greater than 80% qtz., patches dark metallic, non-magnetic mineral.		69.37 69.76	69.57 70.71	23233 23234
69.57	69.76	CL					
69.76	70.71	Brecciate quartzite	As above.		70.71	71.53	23235
70.71	72.99	Schist chloritised	Highly chloritised schist, v. contorted fol., small blebs/veins qtz., micro fractures chloritic + limonitic, some more limonitic 0.05 m sections, vuggy.		71.53 72.03	72.03 72.99	23236 23237
72.99	73.27	Brecciated quartzite	Brecciated quartzite with rusty pyrite-filled fractures and blebs chlorite.		72.99 73.35	73.27 73.55	23238 23239
73.27	73.35	CL					
73.35	73.55	Brecciated quartzite	As above.		73.55	74.55	23240
73.55	75.65	Schist chloritised	Highly chloritised mod. fract. chlorite sericite schist. Still well foliated and not v. contorted. Several sections with narrow limonitic fractures.	fol. 20°	74.55	75.65	23241
75.65	77.22	Quartzite breccia	Highly brecciated quartzite- Quite chloritic in places, 40% chlor., v. limonitic with strong late stage chlor.-limonite fractures at all angles		75.65 76.65	76.65 77.22	23242 23243

From	To	Rock Name	Description	CA	From	To	Sample No.
77.22	77.52	Chloritised schist	Highly chloritised schist - yellow brown speckle min., fol. still viz.	fol. 20°	77.22	77.52	23244
77.52	77.82	Quartzite breccia	As above		77.52	77.82	23245
77.82	78.33	CL					
78.33	78.83	Schist mud	Muddy shear zone apparently of finely comminuted chlor. sch.		78.33	78.83	23246
78.83	79.12	CL					
79.12	79.72	Brecciated quartzite + sch. mud	Quartzite, brecciated + muddy chlor. schist fragments.		79.12	79.72	23247
					80.85	81.15	23248
79.72	80.85	CL					
80.85	81.15	Brecciated quartzite/ brecciated schist. chlor.schist	V. broken fragments of all types.		81.15	81.45	23249
81.15	81.45	Chloritised schist	V. broken fract., highly deformed, but no viz. brecciation.		82.90	83.00	23250
81.45	82.90	CL					
82.90	83.00	Quartzite breccia	A few fragments.				
83.00	84.12	CL					

From	To	Rock Name	Description	CA	From	To	Sample No.
84.12	84.82	Quartzite breccia	V. broken, some good chloritic selvage veins. Mal. stains on fract.		84.12	84.82	23251
84.82	85.62	CL					
85.62	86.02	Quartzite breccia	Broken, well fract. quartzite breccia 85-90% qtz. some strong chlor.-limonite veins.		85.62	86.02	23252
86.02	86.23	CL					
86.23	86.43	Quartzite breccia	Becoming even more broken.		86.23	86.43	23253
86.43	86.84	CL					
86.84	87.24	?Greenstone	Dark green chloritised greenstone andesitic comp. uniform except for finer-grained margin, calcite veinlets at random angles, pyrite blebs & veinlets.		86.84	87.24	23254
87.24	87.84	CL					
87.84	92.05	?Greenstone	As above		87.84	88.84	23255
					88.84	89.84	23256
					89.84	90.84	23257
					90.84	92.05	23258
			92.05 E N D				

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 03 EPD CLAIMS - RESULTS OF 19 79 DRILLING Sheet 1

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (In p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag					
23151	7.22	7.92	0.70		55	6	100	13	705	0.8					
CL	7.92	8.23	0.31												
23152	8.23	9.19	0.96		5	45	19	30	905	0.7					
CL	9.19	9.34	0.15												
23153	9.34	9.84	0.50		8	4	55	10	1995	0.2					
CL	9.84	10.24	0.40												
23154	10.24	10.34	0.10		5	L2	40	10	585	0.7					
CL	10.34	10.59	0.25												
23155	10.59	10.89	0.30		13	2	49	123	550	1.0					
CL	10.89	10.97	0.08												
23156	10.97	11.07	0.10		10	4	20	190	525	0.3					
23157	11.07	11.27	0.20		10	11	40	117	750	0.8					
23158	11.27	11.35	0.08		10	L2	32	7	1250	0.3					
23159	11.35	11.59	0.24		12	2	199	72	675	1.7					
23160	11.59	11.74	0.15		10	4	38	130	448	0.3					
CL	11.74	11.81	0.07												
23161	11.81	11.91	0.10		15	4	14	10	1995	ND					
CL	11.91	12.26	0.35												
23162	12.26	12.40	0.14		10	2	6	10	1340	0.2					
CL	12.40	12.50	0.10												
23163	12.50	12.65	0.15		5	L2	9	ND	937	0.3					
CL	12.65	12.80	0.15												
23164	12.80	12.90	0.10	1.74	G2000	14	1000	233	1405	8.7					
CL	12.90	12.96	0.06												
23165	12.96	13.16	0.20		370	5	179	170	8450	2.0					
CL	13.16	13.41	0.25												

CORTIN JOINT VENTURE

HOLE: EPD- 79-03 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 2

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (In p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag					
23166	13.41	14.31	0.90		40	L2	35	10	575	0.3					
CL	14.31	14.63	0.32												
23167	14.63	15.13	0.50		18	2	57	10	460	0.2					
CL	15.13	15.24	0.11												
23168	15.24	15.69	0.45		10	2	20	10	500	0.1					
23169	15.69	15.94	0.25		460	9	11	9	250	ND					
CL	15.94	16.08	0.14												
23170	16.08	16.46	0.38	0.85	G2000	140	105	11	368	0.8					
CL	16.46	16.71	0.25												
23171	16.71	16.91	0.20		520	6	84	10	350	1.0					
23172	16.91	17.08	0.17		43	L2	20	15	525	0.7					
CL	17.08	18.05	0.97												
23173	18.05	18.45	0.40		10	12	53	10	225	0.6					
CL	18.45	19.33	0.88												
23174	19.33	19.36	0.03												
CL	19.36	19.56	0.20												
23174	19.56	19.86	0.30		5	L2	27	40	423	0.5					
CL	19.86	20.30	0.44												
23174	20.30	20.80	0.50												
23175	20.80	21.80	1.00		7	3	30	40	470	0.5					
23176	21.80	22.13	0.33		8	3	30	87	780	0.6					
23177	22.13	23.13	1.00		5	4	17	9	325	0.2					
23178	23.13	23.97	0.84		5	2	17	90	300	0.2					
CL	23.97	24.16	0.19												
23179	24.16	25.16	1.00		L5	L2	31	70	961	0.3					
23180	25.16	26.16	1.00		218	2	79	30	625	0.8					

CORTIN JOINT VENTURE

HOLE : EPD - 79 - 03 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 3

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag					
23181	26.16	27.16	1.00		L5	2	56	30	675	0.5					
23182	27.16	28.34	1.18		150	3	35	47	1125	0.6					
23183	28.34	29.25	0.91		830	19	703	310	18500	24.7					
23184	29.25	29.85	0.60		45	4	47	79	1062	2.3					
23185	29.85	30.10	0.25		28	3	99	330	607	19.0					
23186	30.10	30.60	0.50		15	3	56	57	225	1.8					
CL	30.60	30.86	0.26												
23187	30.86	31.66	0.80		10	2	156	170	1632	6.8					
CL	31.66	31.77	0.11												
23188	31.77	32.25	0.48		40	6	155	20	1832	0.8					
CL	32.25	32.56	0.31												
23189	32.56	33.36	0.80		15	4	90	40	161	1.5					
CL	33.36	33.45	0.09												
23190	33.45	33.85	0.40		5	3	60	21	1095	0.3					
23191	33.85	34.00	0.15		15	4	88	26	400	0.6					
CL	34.00	34.14	0.14												
23192	34.14	35.14	1.00		5	L2	47	27	450	0.3					
23193	35.14	36.12	0.98		7	L2	38	15	275	0.6					
23194	36.12	36.98	0.86		5	L2	89	38	325	2.2					
23195	36.98	37.98	1.00		5	3	70	15	400	2.6					
23196	37.98	38.50	0.52		10	L2	51	20	450	0.5					
CL	38.50	38.65	0.15												
23197	38.65	39.65	1.00		10	L2	77	30	475	0.7					
23198	39.65	40.65	1.00		12	L2	52	27	562	0.8					
23199	40.65	41.90	1.25		6	30	158	41	675	0.8					
CL	41.90	42.04	0.14												

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 03 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 4

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.) Sn	W	Cu	Pb	Zn	Ag
23200	42.04	42.54	0.50		5	2	62	20	400	2.3
23201	42.54	43.16	0.62		75	4	110	118	750	4.9
23202	43.16	44.16	1.00		10	L2	221	50	1565	2.1
23203	44.16	44.93	0.77		L5	L2	80	100	259	1.3
23204	44.93	45.93	1.00		10	L2	68	120	375	0.6
23205	45.93	46.93	1.00		5	L2	40	20	250	1.0
23206	46.93	47.78	0.85		10	6	78	41	325	1.6
23207	47.78	47.98	0.20		15	3	176	15	375	2.6
23208	47.98	48.98	1.00		10	2	153	10	190	1.2
23209	48.98	49.74	0.76		10	L2	34	8	175	1.2
23210	49.74	50.24	0.50		10	3	70	10	200	0.7
23211	50.24	51.00	0.76		360	5	270	32	650	5.9
23212	51.00	51.60	0.60		155	2	122	19	299	3.3
23213	51.60	52.60	1.00		5	L2	48	11	120	ND
23214	52.60	53.60	1.00		8	L2	176	10	375	1.2
23215	53.60	54.60	1.00		690	4	120	10	75	3.8
23216	54.60	55.60	1.00	0.12	1110	3	95	10	250	2.7
23217	55.60	56.20	0.60		33	4	139	10	375	1.6
23218	56.20	56.74	0.54		15	3	97	10	525	1.3
CL	56.74	56.85	0.11							
23219	56.85	57.85	1.00		68	2	187	10	325	2.6
23220	57.85	58.85	1.00		55	2	231	30	500	3.1
23221	58.85	59.85	1.00		20	L2	238	11	375	1.4
23222	59.85	60.91	1.06		15	3	200	19	387	2.8
CL	60.91	61.57	0.66							
23223	61.57	62.57	1.00		80	4	180	19	226	5.8

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 03 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 5

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.) Sn	W	Cu	Pb	Zn	Ag
23224	62.57	63.57	1.00		5	2	103	10	387	2.0
23225	63.57	64.19	0.62		13	2	170	12	375	1.8
23226	64.19	64.95	0.76		45	2	370	39	275	8.2
23227	64.95	65.25	0.30		95	L2	219	20	350	2.1
CL	65.25	65.48	0.23							
23228	65.48	66.38	0.90		10	L2	280	31	450	2.7
23229	66.38	67.18	0.80		9	L2	219	19	475	1.4
23230	67.18	68.22	1.04		330	2	1220	20	425	69.5
CL	68.22	68.58	0.36							
23231	68.58	68.88	0.30		780	6	14000	46	1250	323.4
23232	68.88	69.03	0.15		40	6	1575	60	1798	43.5
CL	69.03	69.37	0.34							
23233	69.37	69.57	0.20		150	4	480	10	165	18.0
CL	69.57	69.76	0.19							
23234	69.76	70.71	0.95		780	4	700	18	175	11.3
23235	70.71	71.53	0.82		880	4	680	27	200	23.8
23236	71.53	72.03	0.50		420	2	600	20	225	4.3
23237	72.03	72.99	0.96		60	4	230	10	283	2.8
23238	72.99	73.27	0.28		80	3	3180	20	113	10.0
CL	73.27	73.35	0.08							
23239	73.35	73.55	0.20		160	3	378	27	225	14.3
23240	73.55	74.55	1.00		8	2	238	30	475	2.3
23241	74.55	75.65	1.10		40	4	181	10	440	1.4
23242	75.65	76.65	1.00		195	6	700	23	1220	7.6
23243	76.65	77.22	0.57		18	5	153	15	375	1.8
23244	77.22	77.52	0.30		10	3	200	11	400	1.7

0.04% Sn
1.302 oz. Ag
6.37 m (incl. 0.97 m CL)

CORTIN JOINT VENTURE

HOLE : EPD - 79 - 03 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 6

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag					
23245	77.52	77.82	0.30		295	4	225	10	650	1.3					
CL	77.82	78.33	0.51												
23246	78.33	78.83	0.50		5	3	185	39	2265	0.6					
CL	78.83	79.12	0.29												
23247	79.12	79.72	0.60		32	3	105	40	2500	1.6					
CL	79.72	80.85	1.13												
23248	80.85	81.15	0.30		60	4	280	17	412	0.2					
23249	81.15	81.45	0.30		10	4	112	10	366	0.6					
CL	81.45	82.90	1.45												
23250	82.90	83.00	0.10		10	3	75	10	550	5.3					
CL	83.00	84.12	1.12												
23251	84.12	84.82	0.70		10	4	575	65	4250	7.5					
CL	84.82	85.62	0.80												
23252	85.62	86.02	0.40		175	4	1260	113	2390	28.0					
CL	86.02	86.23	0.21												
23253	86.23	86.43	0.20		40	7	520	340	10000	2.5					
CL	86.43	86.84	0.41												
23254	86.84	87.24	0.40		10	14	47	16	780	0.5					
CL	87.24	87.84	0.60												
23255	87.84	88.84	1.00		10	3	186	29	375	1.3					
23256	88.84	89.84	1.00		15	8	70	30	383	0.3					
23257	89.84	90.84	1.00		10	2	25	38	481	0.7					
23258	90.84	92.05	1.21		75	L2	150	222	937	5.4					
					HOLE STOPS 92.05 m.										

CORTIN JOINT VENTURE

HOLE: EPD- 79- 04 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 1

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (In p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag					
23259	7.67	8.45	0.78		210	L2	67	25	175	1.0					
Core Loss	8.45	8.53	0.08		-	-	-	-	-	-					
23260	8.53	9.10	0.57		75	L2	49	10	77	0.5					
Core Loss	9.10	9.75	0.65		-	-	-	-	-	-					
23261	9.75	9.85	0.10		18	2	42	12	128	0.5					
Core Loss	9.85	9.90	0.05		-	-	-	-	-	-					
23262	9.90	10.10	0.20		455	L2	60	20	110	0.7					
Core Loss	10.10	10.24	0.14		-	-	-	-	-	-					
23263	10.24	10.40	0.16		58	L2	120	15	150	0.5					
23264	10.40	10.52	0.12		130	10	100	13	99	0.7					
Core Loss	10.52	10.91	0.39		-	-	-	-	-	-					
23265	10.91	11.03	0.12		130	L2	203	12	258	0.6					
Core Loss	11.03	11.09	0.06		-	-	-	-	-	-					
23266	11.09	11.58	0.49		33	110	141	11	120	0.4					
23267	11.58	11.63	0.05		17	L2	26	10	33	0.4					
23268	11.63	12.10	0.47		26	L2	136	20	120	0.4					
23269	12.10	12.70	0.60		21	14	108	20	104	0.8					
Core Loss	12.70	13.62	0.92		-	-	-	-	-	-					
23270	13.62	13.87	0.25		27	L2	111	17	126	1.1					
23271	13.87	14.70	0.83		28	6	268	24	100	1.5					
23272	14.70	15.00	0.30		14	L2	148	16	136	0.9					
Core Loss	15.00	15.39	0.39		-	-	-	-	-	-					
23273	15.39	15.80	0.41		15	L2	96	15	113	ND					
Core Loss	15.80	15.85	0.05		-	-	-	-	-	-					
23274	15.85	16.11	0.26		12	L2	78	19	126	0.5					
Core Loss	16.11	16.61	0.50		-	-	-	-	-	-					

CORTIN JOINT VENTURE

HOLE: EPD- 79-04 EPD CLAIMS - RESULTS OF 1979 DRILLING

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (In p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag					
23275	16.61	17.35	0.74		9	L2	28	11	78	0.5					
Core Loss	17.35	17.50	0.15		-	-	-	-	-	-					
23276	17.50	17.60	0.10		11	L2	40	26	120	0.8					
Core Loss	17.60	17.67	0.07		-	-	-	-	-	-					
23277	17.67	18.02	0.35		30	L2	45	19	81	0.3					
Core Loss	18.02	18.53	0.51		-	-	-	-	-	-					
23278	18.53	19.00	0.47		215	L2	439	20	167	2.5					
23279	19.00	19.87	0.87		41	6	330	20	250	4.5					
Core Loss	19.87	20.05	0.18		-	-	-	-	-	-					
23280	20.05	20.28	0.23		20	6	111	12	46	0.8					
Core Loss	20.28	20.42	0.14		-	-	-	-	-	-					
23281	20.42	21.00	0.58		12	L2	62	12	90	0.7					
23282	21.00	21.64	0.64		18	2	81	18	125	1.5					
Core Loss	21.64	21.94	0.30		-	-	-	-	-	-					
23283	21.94	22.15	0.21	0.38	G2000	8	1260	178	210	30.1		0.38% Sn 0.968 oz. Ag			
Core Loss	22.15	22.56	0.41		-	-	-	-	-	-					
23284	22.56	22.80	0.24		78	18	349	33	357	3.0					
Core Loss	22.80	22.98	0.18		-	-	-	-	-	-					
23285	22.98	23.30	0.32		97	8	265	18	225	1.5					
Core Loss	23.30	23.40	0.10		-	-	-	-	-	-					
23286	23.40	24.40	1.00		45	L2	120	3	275	0.2					
23287	24.40	25.21	0.81		38	10	141	17	459	0.8					
23288	25.21	25.69	0.48		26	L2	105	46	225	1.4					
23289	25.69	26.25	0.56		33	L2	99	70	155	3.0					
23290	26.25	27.25	1.00		16	L2	93	20	125	0.1					
23291	27.25	28.25	1.00		16	L2	53	42	175	0.2					

CORTIN JOINT VENTURE

HOLE: EPD-79 - 04 EPD CLAIMS - RESULTS OF 1979 DRILLING

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)					
					Sn	W	Cu	Pb	Zn	Ag
23292	28.25	28.92	0.67		465	6	54	30	179	1.4
23293	28.92	29.66	0.74		9	6	81	20	812	0.6
23294	29.66	30.20	0.54		53	6	70	29	300	0.8
Core Loss	30.20	31.08	0.88		-	-	-	-	-	-
23295	31.08	31.77	0.69		22	2	109	130	242	2.9
23296	31.77	32.88	1.11		10	2	88	23	287	0.9
23297	32.88	33.80	0.92		8	2	70	90	251	2.0
Core Loss	33.80	34.13	0.33		-	-	-	-	-	-
23298	34.13	34.45	0.32		10	2	50	20	200	0.3
Core Loss	34.45	34.53	0.08		-	-	-	-	-	-
23299	34.53	35.10	0.57		6	L2	50	20	333	0.5
23300	35.10	36.00	0.90		13	2	48	10	341	0.3
23301	36.00	36.12	0.12		L5	L2	5	10	124	0.4
23302	36.12	36.72	0.60		L5	L2	19	15	700	0.3
23303	36.72	37.40	0.68		10	8	27	25	586	0.5
23304	37.40	38.10	0.70		L5	L2	31	20	575	0.9
23305	38.10	38.74	0.64		L5	L2	68	30	625	1.0
23306	38.74	39.53	0.79		6	L2	61	40	900	0.6
23307	39.53	40.50	0.97		5	L2	100	32	900	1.3
23308	40.50	41.36	0.86		7	L2	43	20	425	0.1
23309	41.36	42.30	0.94		18	10	80	70	1732	1.0
23310	42.30	43.28	0.98		L5	6	60	190	581	0.5
23311	43.28	44.30	1.02		L5	L2	35	20	221	0.5
23312	44.30	45.30	1.00		L5	L2	30	15	99	0.3
23313	45.30	46.32	1.02		5	L2	47	17	197	0.5
23314	46.32	47.30	0.98		5	L2	79	80	142	1.5

CORTIN JOINT VENTURE

HOLE: EPD- 79-04 — EPD CLAIMS - RESULTS OF 1979 DRILLING — Sheet 4

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)					
					Sn	W	Cu	Pb	Zn	Ag
23315	47.30	47.90	0.60		L5	L2	64	18	100	0.9
23316	47.90	48.12	0.22		43	L2	78	47	197	2.1
23317	48.12	49.10	0.98		L5	L2	127	12	225	ND
23318	49.10	50.05	0.95		5	L2	60	15	150	1.0
23319	50.05	50.66	0.61		9	4	70	10	200	1.4
23320	50.66	50.82	0.16		5	4	51	22	254	0.5
23321	50.82	51.68	0.86		5	L2	56	17	149	0.6
23322	51.68	52.40	0.72		L5	L2	81	23	330	0.2
23323	52.40	52.95	0.55		5	L2	68	18	391	0.9
23324	52.95	53.89	0.94		15	L2	180	31	611	1.0
23325	53.89	54.38	0.49		5	L2	76	25	204	1.0
23326	54.38	54.78	0.40		5	L2	80	25	350	1.2
23327	54.78	55.02	0.24		7	L2	40	20	175	0.7
23328	55.02	56.00	0.98		8	L2	50	20	170	0.8
23329	56.00	56.50	0.50		16	L2	53	23	169	0.6
23330	56.50	57.50	1.00		16	L2	67	30	281	0.7
23331	57.50	58.50	1.00		12	L2	97	20	291	1.0
23332	58.50	59.50	1.00		13	L2	51	10	209	0.6
23333	59.50	60.03	0.53		6	L2	56	43	186	0.5
23334	60.03	61.08	1.05		6	L2	63	22	100	0.9
23335	61.08	61.27	0.19		8	L2	31	13	153	0.7
23336	61.27	61.78	0.51		7	L2	15	18	74	1.3
23337	61.78	62.70	0.92		2	2	91	36	2240	0.5
23338	62.70	63.42	0.72		13	8	68	30	1045	0.8
23339	63.42	64.45	1.03		57	L2	194	85	1375	1.5
23340	64.45	65.00	0.55		10	L2	320	43	812	3.0

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 04 EPD CLAIMS - RESULTS OF 1979 DRILLING Sheet 5

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (in p.p.m.)					
					Sn	W	Cu	Pb	Zn	Ag
23341	65.00	65.93	0.93		12	L2	139	21	487	0.6
23342	65.93	66.07	0.14		7	L2	167	12	153	0.6
23343	66.07	66.61	0.54		8	L2	150	38	418	0.7
23344	66.61	67.61	1.00		18	L2	110	28	339	1.0
23345	67.61	68.71	1.10		5	L2	62	28	400	0.5
23346	68.71	68.93	0.22		L5	50	105	50	3180	1.0
23347	68.93	69.80	0.87		6	L2	132	30	450	0.6
23348	69.80	70.15	0.35		10	L2	172	30	387	0.7
23349	70.15	71.00	0.85		8	L2	98	35	348	0.6
23350	71.00	71.30	0.30		7	L2	55	23	239	0.5
23351	71.30	71.67	0.37		5	L2	43	12	198	0.7
23352	71.67	72.50	0.83		L5	L2	70	22	100	1.0
23353	72.50	73.05	0.55		L5	L2	69	15	250	0.5
23354	73.05	73.24	0.19		6	L2	30	6	111	0.5
23355	73.24	74.00	0.76		5	L2	71	17	342	0.6
23356	74.00	74.90	0.90		12	L2	110	25	360	0.5
Core Loss	74.90	74.98	0.08		-	-	0	0	0	-
23357	74.98	75.13	0.15		21	10	67	80	71	7.6
Core Loss	75.13	75.44	0.31		-	-	-	-	-	-
23358	75.44	75.64	0.20		9	L2	90	25	162	0.9
Core Loss	75.64	76.50	0.86		-	-	-	-	-	-
23359	76.50	77.50	1.00		43	L2	221	35	387	1.4
23360	77.50	78.52	1.02		12	L2	177	30	345	0.5
23361	78.52	79.50	0.98		6	L2	64	28	102	0.5
23362	79.50	80.20	0.70		22	L2	129	30	153	0.1
23363	80.20	80.80	0.60		12	L2	109	30	172	0.8

CORTIN JOINT VENTURE

HOLE: EPD - 79 - 04 EPD CLAIMS - RESULTS OF 19 79 DRILLING

Sample No.	From m.	To m.	Width m.	Sn% assay	GEOCHEMICAL VALUES (In p.p.m.)										
					Sn	W	Cu	Pb	Zn	Ag					
Core Loss	80.80	81.35	0.55		-	-	-	-	-	-					
23364	81.35	81.80	0.45		11	L2	49	19	225	1.0					
Core Loss	81.80	81.96	0.16		-	-	-	-	-	-					
23365	81.96	82.60	0.64		15	L2	82	17	335	1.0					
23366	82.60	83.09	0.49		L5	2	181	25	262	1.3					
23367	83.09	83.90	0.81		6	L2	159	20	297	1.7					
23368	83.90	84.23	0.33		12	L2	192	30	296	1.0					
23369	84.23	85.00	0.77		19	L2	306	67	625	9.7					
23370	85.00	85.92	0.92		10	L2	376	130	302	2.0					
23371	85.92	87.04	1.12		11	L2	245	56	300	1.3					
23372	87.04	87.70	0.66		105	L2	470	120	482	9.0					
23373	87.70	88.40	0.70		40	L2	101	32	198	1.0					
Core Loss	88.40	88.97	0.57		-	-	-	-	-	-					

090758

CCH RESOURCES LTD.
DIAMOND DRILL LOG

VENTURE CORTIN

PROJECT

PROPERTY EPD

LOCATION

GRID

Location 99 + 78.8N

Section 101 + 91.1W

Bearing 347 True

Dip -46

Length 88.97 m

TESTS

TROPARI

Depth	Mag Brg	Corr Brg	Dip	Dip²
30.48 m			56	48
60.96 m			60	52
88.69 m			63	53

ACID

SURVEY

Latitude

Departure

Elevation

Bearing

Dip

PHYSICAL DATA

Core Size AQ to end , to

Date Started August 30, 1979

Date Completed September 7, 1979

Casing Pulled yes

Core Recovery 89%

Cemented no

Core Location: In storage at Oliver Creek camp site 115-P-15

Logged by D. Kennedy

Contractor Canico

NOTES: 1) Give reference - Magnetic, Grid, True

2) Corrected dip.

DDH No. EPD 79-04

CCH RESOURCES LTD. - DIAMOND DRILL LOG

From	To	Rock Name	Description	CA	From	To	Sample
0.0	7.67	Casing	Through overburden				
7.67	8.45	Quartzite	Medium grey, fine-grained, lightly chloritized foliation generally not well developed, highly broken up, a few pieces with well developed foliation at beginning of section highly chloritized, probably boulders	fol 80°	7.67	8.45	23259
8.45	8.53	Core loss					
8.53	9.10	Quartzite	Medium grey, fine-grained, highly broken up, several hematite and limonite stained fractures; occasional quartz fragments up to 2 cm., very lightly chloritized		8.53	9.10	23260
9.10	9.75	Core loss			9.75	9.85	23261
9.75	9.85	Quartzite	As above				
9.85	9.90	Core loss					
9.90	10.10	Quartzite	Medium grey, fine-grained, badly broken up, lightly chloritized, several fractures with limonite staining	65°	9.90	10.10	23262
10.10	10.24	Core loss					
10.24	10.40	Chlorite schist	Dark grey-green, fine-grained chlorite schist, contains 10% quartz as narrow stringers parallel to foliation, section badly broken up	65°	10.24	10.40	23263
10.40	10.52	Quartzite	Medium grey, fine-grained, several fractures stained with limonite and hematite	65°	10.40	10.52	23264
10.52	10.91	Core loss					
10.91	11.03	Quartzite	Very badly broken, light grey, fractured; fractures stained with limonite and hematite, lightly chloritized	65°	10.91	11.03	23265
11.03	11.09	Core loss					

DDH No. EPD 79-04

From	To	Rock Name	Description	CA	From	To	Sample
11.09	11.58	Quartzite	Medium grey, fine-grained, lightly chloritized; a few limonite stained fractures at 20-30° to CA, 11.21-11.22 quartz stringer at 70° to CA	60°	11.09	11.58	23266
11.58	11.63	Quartz-Carbonate Vein	80% Quartz, 20% carbonate in vein at 80° to CA	80°	11.58	11.63	23267
11.63	12.10	Quartzite	Medium grey, fine-grained badly broken up, several limonite stained fractures 11.74-11.80 lightly brecciated, 10% quartz as matrix		11.63	12.10	23268
12.10	12.70	Chlorite schist	Medium grey-green, soft, highly chloritic, very badly broken up, occasional quartz stringers up to 1.5 cm at 75° to CA	75°	12.10	12.70	23269
12.70	13.62	Core loss					
13.62	13.87	Chlorite schist	As above, some obvious cave in section	75°	13.62	13.87	23270
13.87	14.70	Quartzite	Medium grey-brown, fine-grained, lightly chloritized, a few chlorite filled fractures at 70° to C.A., some lightly brecciated sections 14.03 - 14.15 70% quartz as breccia matrix 14.53 - 14.57 60% quartz as breccia matrix	65°	13.87	14.70	23271
14.70	15.00	Chlorite schist	Medium grey-green, some soft highly chloritized and sericitized sections very badly broken up, occasional narrow quartz stringers	70°	14.70	15.00	23272
15.00	15.39	Core loss					
15.39	15.80	Chlorite schist Breccia	As above, but shows minor brecciation, generally 10-20% quartz as matrix 15.61-15.66 80% quartz as breccia matrix	70°	15.39	15.80	23273
15.80	15.85	Core loss					

From	To	Rock Name	Description	CA	From	To	Sample
15.85	16.11	Chlorite schist Breccia	As above, chips only recovered		15.85	16.11	23274
16.11	16.61	Core loss					
16.61	17.35	Chlorite schist Breccia	As above, mostly chips recovered, occasional short core pieces	70°	16.61	17.35	23275
17.35	17.50	Core loss					
17.50	17.60	Chlorite schist Breccia	As above, chips only recovered		17.50	17.60	23276
17.60	17.67	Core loss					
17.67	18.02	Chlorite schist Breccia	As above, occasional short pieces core and chips recovered about 50% of chips are quartz	70°	17.67	18.02	23277
18.02	18.53	Core loss					
18.53	19.87	Gouge zone	Limonite stained chips and rounded rice-pea size rock fragments recovered		18.53	19.00	23278
19.87	20.05	Core loss			19.00	19.87	23279
20.05	20.28	Gouge zone	As above		20.05	20.28	23280
20.28	20.42	Core loss					
20.42	21.64	Chlorite schist	Medium grey, fine-grained, occasional fractures coated with limonite, core generally very broken up	65°	20.42 21.00	21.00 21.64	23281 23282
21.64	21.94	Core loss					
21.94	22.15	Chlorite schist Breccia	est. 50% quartz as matrix in chlorite schist breccia		21.94	22.15	23283
22.15	22.56	Core loss					

From	To	Rock Name	Description	CA	From	To	Sample
22.56	22.80	Chlorite schist Breccia	Very highly brecciated, similar to above	70°	22.56	22.80	23284
22.80	22.98	Core loss					
22.98	23.30	Chlorite schist Breccia	Lightly brecciated chlorite schist, chloritized;a few narrow fractures showing limonite staining present	70°	22.98	23.30	23285
23.30	23.40	Core loss					
23.40	24.40	Chlorite schist	Highly chloritized, chlorite schist, occasional limonite stained fractures, occasional narrow quartz stringers parallel to foliation	60°	23.40	24.40	23286
24.40	25.21	Chlorite schist Breccia	Brecciated, highly chloritized chlorite schist, contains 30% quartz as breccia matrix occasional limonite filled fractures nearly parallel to CA	60°	24.40	25.21	23287
25.21	25.69	Quartzite	Medium grey, fine-grained contains numerous narrow fractures filled with limonite and occasionally chlorite, predominantly 30-40° to CA	fol 60° fract 55°	25.21	25.69	23288
25.69	26.25	Chlorite schist Breccia	Lightly brecciated, chloritized schist, est. 40% quartz as matrix		25.69	26.25	23289
26.25	28.92	Quartzite	Generally hard fine-grained quartzite with a few somewhat chloritic sections, a few fractures nearly parallel to CA filled with limonite		26.25 27.25	27.25 28.25	23290 23291
					28.25	28.92	23292
28.92	29.66	Chlorite schist	Highly chloritized schist, grey-green, fine-grained	50-60°	28.92	29.66	23293
29.66	30.20	Quartzite	Medium grey, fine-grained, very lightly chloritized, core somewhat broken up	50°	29.66	30.20	23294
30.20	31.08	Core loss					
31.08	31.77	Quartzite breccia	Somewhat chloritised, highly brecciated	60°	31.08	31.77	23295

DDH No. EPD 79-04

From	To	Rock Name	Description	CA	From	To	Sample
31.77	32.88	Quartzite	Medium grey, fine-grained, occasional narrow fractures with limonite staining	60°	31.77	32.88	23296
32.88	33.80	Chlorite schist	Highly chloritized chlorite schist, badly broken up, mostly chips recovered, some very minor brecciation	60°	32.88	33.80	23297
33.80	34.13	Core loss					
34.13	34.45	Chlorite schist	Highly chloritized chlorite schist, occasional quartz stringers parallel to foliation up to 1 cm. Occasional 1-3 mm quartz carbonate stringers, cross-cutting at random angles	55°	34.13	34.45	23298
34.45	34.53	Core loss					
34.53	35.10	Chlorite schist	As above		34.53	35.10	23299
35.10	36.00	Chlorite schist	Lightly chloritized chlorite schist, occasional 1 mm fractures at 10-20° to CA filled with quartz carbonate	60°	35.10	36.00	23300
36.00	36.12	Quartz Chlorite schist breccia	80% quartz as matrix to chlorite schist breccia		36.00	36.12	23301
36.12	36.72	Quartzite	Medium grey, fine-grained, occasional tension fractures at 10-20° to CA, some minor chlorite present.	60°	36.12	36.72	23302
36.72	38.10	Chloritic schist	Lightly chloritized dark green schist, numerous quartz filled fractures parallel to foliation, occasional cross cutting fractures filled with quartz	60°	36.72 37.40	37.40 38.10	23303 23304
38.10	39.53	Quartzite Breccia	Hard, fine-grained, medium to dark-grey, lightly brecciated est. 10% quartz as breccia matrix, occasional fractures coated with limonite, generally at 10-20° to CA		38.10 38.74	38.74 39.53	23305 23306

From	To	Rock Name	Description	CA	From	To	Sample
39.53	47.90	Chlorite schist	Lightly chloritized chlorite schist, dark grey-green, contains 10% quartz as stringers up to 1 cm, generally parallel to foliation	60°	39.53	40.50	23307
					40.50	41.36	23308
					41.36	42.30	23309
					42.30	43.28	23310
					43.28	44.30	23311
					44.30	45.30	23312
					45.30	46.32	23313
					46.32	47.30	23314
					47.30	47.90	23315
47.90	48.12	Quartzite	Medium grey, fine-grained, contains a few fractures stained with limonite	65°	47.90	48.12	23316
48.12	50.05	Chlorite schist	As above		48.12	49.10	23317
			49.68-49.70 Quartz stringer with 10% chlorite at 70° to CA		49.10	50.05	23318
			49.79-49.81 Quartz stringer with 10% chlorite at 60° to CA				
50.05	50.66	Quartzite	Grey, fine-grained, contains 15% quartz as limonite stained stringers at random angles to CA, up to 3 cm wide; a number of limonite coated fractures and a few chlorite filled fractures at random angles to CA		50.05	50.66	23319
50.66	50.82	Chlorite schist	Highly chloritized dark green schist, occasional 1-3 mm quartz stringer parallel to foliation	75°	50.66	50.82	23320
50.82	51.68	Quartzite	As in previous section		50.82	51.68	23321
51.68	52.95	Chlorite schist	As above		51.68	52.40	23322
			52.35-25.48 30% limonite stained quartz patches up to 3 cm	65°	52.40	52.95	23323
52,95	54.38	Quartzite	As in previous section	75°	52.95	53.89	23324
			54.28-54.30 Quartz stringer at 70° to CA; light limonite staining		53.89	54.38	23325

From	To	Rock Name	Description	CA	From	To	Sample
54.38	54.78	Chlorite schist Breccia	Highly chloritized, lightly brecciated schist, est. 15% limonite stained quartz as matrix		54.38	54.78	23326
54.78	55.02	Quartz vein	Contacts 20° to C.A., limonite stained, contains 5-7% chlorite		54.78	55.02	23327
55.02	56.50	Chlorite schist Breccia	As above		55.02	56.00	23328
56.50	60.03	Chlorite schist	Similar to above but not brecciated, contains up to 5% quartz as narrow stringers parallel to foliation 57.94-57.99 quartz stringer at 70° to CA, limonite staining on contacts	70°	56.00 56.50 57.50 58.50 59.50	56.50 57.50 58.50 59.50 60.03	23329 23330 23331 23332 23333
60.03	61.08	Chlorite schist Breccia	Very highly chloritized chlorite schist, contains 20% quartz as breccia matrix, dark violet-black sheen, some sericite present		60.03	61.08	23334
61.08	61.27	Chlorite schist	Less chloritized than brecciated section above, minor sericite present	75°	61.08	61.27	23335
61.27	61.78	Quartzite	As before 61.49-61.51 Quartz stringer with limonite staining, has some chlorite on margins	70°	61.27	61.78	23336
61.78	62.70	Chlorite schist	Highly chloritized 62.00-62.80 quartz stringer containing 10% chlorite at 45° to CA		61.78	62.70	23337
62.70	63.42	Quartzite	As before		62.70	63.42	23338
63.42	64.45	Chlorite schist	Lightly chloritized, occasional 1-3 mm quartz and quartz carbonate stringers at random angles to CA	65°	63.42	64.45	23339
64.45	65.93	Quartzite	As before, contains occasional narrow chlorite bands, fracture fillings?	50°	64.45 65.00	65.00 65.93	23340 23341

From	To	Rock Name	Description	CA	From	To	Sample
65.93	66.07	Chlorite schist	Highly chloritized,contains a few narrow 1-2 mm quartz stringers parallel to foliation	60°	65.93	66.07	23342
66.07	66.61	Quartzite	As before 66.36-66.40 Quartz stringer containing 5% chlorite at 65° to CA	70°	66.07	66.61	23343
66.61	68.71	Chlorite schist	Similar to above section, contains about 5% quartz as narrow stringers parallel to foliation and occasionally as patches	70°	66.61 67.61	67.61 68.71	23344 23345
68.71	68.93	Quartzite	As above, quite massive	70°	68.71	68.93	23346
68.93	70.15	Chlorite schist Breccia	Highly chloritized, lightly brecciated, contains 20% quartz as matrix		68.93 69.80	69.80 70.15	23347 23348
70.15	71.00	Quartzite Breccia	As before, but contains 30% quartz as breccia matrix. 5-10% chlorite in quartz	70°	70.15	71.00	23349
71.00	71.30	Chlorite schist	Heavily chloritized, contains 5% quartz as narrow stringers parallel to foliation	75°	71.00	71.30	23350
71.30	71.67	Quartzite	Quite massive, medium grey, fine-grained		71.30	71.67	23351
71.67	73.05	Chlorite schist Breccia	Lightly chloritized and brecciated, contains 10% secondary chlorite, 10% quartz as matrix, occasional limonite stained fractures 71.77-71.80 limonite stained quartz stringers at 75° to CA 72.46-72.50 limonite stained quartz stringers at 85° to CA	70°	71.67 72.50	72.50 73.05	23352 23353
73.05	73.24	Quartzite	As above	60°	73.05	73.24	23354
73.24	74.90	Chlorite schist Breccia	As in previous section	70°	73.24 74.00	74.00 74.90	23355 23356

From	To	Rock Name	Description	CA	From	To	Sample
74.90	74.98	Core loss					
74.98	75.13	Chlorite schist Breccia	Probably as above, only chips and quartz pieces recovered		74.98	75.13	23357
75.13	75.44	Core loss					
75.44	75.64	Quartzite	Massive, as in previous section		75.44	75.64	23358
75.64	76.50	Core loss					
76.50	78.52	Chlorite schist Breccia	Light to medium chloritization, lightly brecciated, est. 10% quartz as matrix material	60°	76.50 77.50	77.50 78.52	23359 23360
78.52	80.80	Quartzite	As above, generally quite massive, a few narrow chloritic sections	60°	78.52 79.50 80.20	79.50 80.20 80.80	23361 23362 23363
80.80	81.35	Core loss					
81.35	81.80	Chlorite schist Breccia	Highly chloritized and brecciated, mostly chips recovered, about 40% quartz in recovered material	55°	81.35	81.80	23364
81.80	81.96	Core loss					
81.96	82.60	Quartzite	Massive as before		81.96	82.60	23365
82.60	83.09	Chlorite schist	Highly chloritized, contains 5% quartz, parallel to foliation	60°	82.60	83.09	23366
83.09	84.23	Quartzite Breccia	Brecciated, contains 30% secondary quartz as matrix, a number of limonite stained fractures at random angles to CA		83.09 83.90	83.90 84.23	23367 23368
84.23	85.92	Chlorite schist Breccia	Highly chloritized and brecciated, contains 20% quartz as matrix 85.23-85.30 quartz stringer at 60° to CA, contains traces pyrite and black? sphalerite.		84.23 85.00	85.00 85.92	23369 23370

From	To	Rock Name	Description	CA	From	To	Sample
85.92	87.04	Quartzite	As before, contains a few narrow chlorite rich bands	70°	85.92	87.04	23371
87.04	87.70	Chlorite schist Breccia	As above		87.04	87.70	23372
87.70	88.40	Quartzite Breccia	Fairly massive, fine-grained, brecciated, contains 30% quartz matrix material		87.70	88.40	23373
88.40	88.97	Core loss					
88.97			End of hole				



CAMPBELL RESOURCES INC.

CORTIN JOINT VENTURE

SCALE

100 50 0 100 200 300 400
METRES METRES

1 : 5000

CONTOUR INTERVAL:10 METRES

AERIAL PHOTOGRAPHY BY NWSC. DATE : AUG. 1980	CONTROL BY NWSC.
NORTH WEST SURVEY CORPORATION INTERNATIONAL LTD.	
DRAWN BY: M.L. CHECKED BY P.W.	DATE FEB. 1981 JOB NO 81-45	SHEET 1 OF 2

EPD S



CAMPBELL RESOURCES INC.

CORTIN JOINT VENTURE

SCALE

100 50 0 100 200 300 400
METRES METRES

1 : 5000

CONTOUR INTERVAL:10 METRES

AERIAL PHOTOGRAPHY BY NWSC. DATE AUG. 1980	CONTROL BY NWSC.
NORTH WEST SURVEY CORPORATION INTERNATIONAL LTD.	
DRAWN BY M.L. CHECKED BY P.W.	DATE FEB. 1981 JOB NO. 81-45	SHEET 2 OF 2

CJV - EPD - Ortho base
922 Sheet2of2

704

CAMPBELL RESOURCES INC.

MOUNT HALDANE

SCALE

100 50 0 100 200 300 400
METRES METRES

1 : 5000

CONTOUR INTERVAL:10 METRES

AERIAL PHOTOGRAPHY BY NWSC DATE AUG 1980	CONTROL BY NWSC
NORTH WEST SURVEY CORPORATION INTERNATIONAL LTD.	
DRAWN BY M.L. CHECKED BY P.W.	DATE MAR.1981 JOB NO 81-101
	SHEET 2 OF 2

YA 38026

YA 38028

location approx

YA 38027

YA 38029

TRENCH #4

TRENCH #5

DDH-EPD-80-12

OLIVER CR.

LEGEND

VALUES

>500 ppm

>100 ppm

1980 SOIL SAMPLE LOCATIONS

1980 P.I.F. DETERMINATIONS

DIAMOND DRILL HOLE

HELICOPTER PAD

RECEIVED
28 FEB 1981
MINING RECORDER
MAYO, Y.T.
I.A. & N.D.

090758

CORTIN JOINT VENTURE

CAMPBELL RESOURCES INC.

115 - P - 16

EPD GROUP

DRILL HOLE LOCATION

FEWMET ZONE

DETAILED SOIL GRID

Sn

DRAWN BY: D.F.N	DATE: NOV. 11, 1980	FIELD YEAR: 1980	PLAN No. 704-2
REVISED BY:	DATE	SCALE: 1:500	


N
N
N
N
YA 30597
YA 30595
YA 30598
YA 30596
79-02
79-01
79-03
79-04
80-08
80-07
80-10
80-09
80-11
80-06
80-05
TRENCH #1
TRENCH #2
BLASTED OUTCROP
LEGEND
VALUES:
>500 ppm
>300 ppm
>100 ppm
>50 ppm
Sn
N.B. - ONLY VALUES GREATER THAN 500 ppm SHOWN
1980 BONDAR-CLEGG SOIL SAMPLES
1980 P.I.P. DETERMINATIONS
DIAMOND DRILL HOLE LOCATIONS
RECEIVED
20 FEB 1981
MINERAL RESOURCES
BRANCH
ASSESSMENT REPORTS SECTION
CORTIN JOINT VENTURE
CAMPBELL RESOURCES INC.
115-P-15
EPD GROUP
DRILL HOLE LOCATIONS
DETAILED SOIL GRID
DISCOVERY ZONE
Sn
SCALE 1:500
DRAWN BY D.F.N.
DATE DEC. 23, 1980
DRAWING NO. 704-23
090758