

GM 15409

DIAMOND DRILL CORE LOG

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Énergie et Ressources
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Québec 

DIAMOND DRILL CORE LOG — SAMPLE RECORD

05-1

TOTAL LENGTH 302'
 CLAIM 203029 Cl. 3
 DEPTH 45°
 COLLAR

PROPERTY Cold Spring Comporte
 LATITUDE 17+50S
 DEPARTURE 19+00W
 ELEVATION Bell River level

STARTED 23 Mar 64
 FINISHED 27 Mar 64
 BEARING South

Robert J.M. Miller
 AX
 19+00W
 Bell River
 CS-1

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE	LENGTH	ZINC %	COPPER %	GOLD OZ.
0.0	13.0	Casin -						
13.0	41.0	Relatively fresh - Medium to coarse grained at 13' - 1" unit of po and cp -						
41.0	46.0	Lamprophyre dyke - Relatively fresh - Feldspar and amphibole -						
46.0	50.0	Amphibolite - Altered meta gabbro - Silicified	po cp - 8%	8898	4.0		.37	Tr
50.0	55.0	Ditto - Ditto - Ditto veinlets	po cp - 6%	8899	5.0		.18	
55.0	59.0	Ditto - Ditto - Ditto 10° CN	po cp - 8%	8900	4.0		.13	
59.0	61.0	Ditto - Ditto - Ditto	po cp - 4%	8901	2.0		.11	
61.0	63.0	Ditto - Ditto - Ditto -	po cp - 8%	8902	2.0		.13	
63.0	66.0	Ditto - Ditto - Ditto -	po cp - 6%	8903	3.0		.16	
66.0	124.0	Anorthositic meta-gabbro - Some section porphyritic other pegmatitic - At 86' minor po with traces of cp in amphibolitized section -						
128.0	140.0	Ditto - Except highly carbonatized (and sericitized?) Possible fault zone at 128' at 88° CN - Rusty probable water coarse - Schistosity at 75°-90° CN -						

Ministère des Richesses Naturelles, Québec

SERVICE DES GITES MINÉRAUX

No GM- 15409

PUBLIC

DIAMOND DRILL CORE LOG — SAMPLE RECORD

CS-1 page 2 HOLE

PROPERTY Cold Spring Comporte

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE	LENGTH	ZINC	COPPER	GOLD OZ.
140.0	227.0	Anorthositic meta-gabbro - Alternating sections of fine grained and coarse grained rock - Probably banded in layers up to 2' thick - Scattered traces of po & cp along fractures and alteration mineral veinlets - i.e. at 192' at 30° CN -						
227.0	230.0	Dyke - Same as 41-46 - i.e. lamprophyre - Contacts at 30° CN -						
230.0	300.0	Anorthositic meta-gabbro - Same as 140-227 - Traces of cp & po - Doubtfull if any 6" section would assay over 0.2 cu or Ni, however -						
300.0	301.0	Dyke - Acid contacts at 70° CN -						
301.0	302.0	Anorthosite meta-gabbro - Same as above -						
302.0		End of Hole -						

DIAMOND DRILL CORE LOG — SAMPLE RECORD

CS-2

TOTAL LENGTH 407'
 CLAIM 203029 Cl. 3
 DEPTH 47'
 COLLAR

PROPERTY Cold Spring Comporte
 LATITUDE 17+00S
 DEPARTURE 19+00W
 ELEVATION Bell River Level

STARTED 29 Mar 64
 FINISHED 31 Mar 64
 BEARING South

Robert J.M. Miller
 AX
 19+00W
 Bell River
 CS-2

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE LENGTH	ZINC %	COPPER %	GOLD OZ.
0.0	30.0	Casing -					
30.0	41.0	Anorthositic meta-gabbro - Medium to fine grained - Scattered minor alteration @ 2' quartz vein at 32'-34' - Vuggy fractures -					
41.0	43.0	Ditto - Except has qtz. sulphides alteration at 35° CN -	po cp - 3%				
43.0	57.0	Ditto - Same as 30.0-41 - Traces of sulphides -					
57.0	60.0	Ditto - Except altered - Carbonate & sericite ? - Rusty watercourse ? -					
60.0	100.0	Ditto - Few altered sections - i.e. at 98' - 6" with po & cp in minor amounts -					
100.0	104.0	Lamprophyre dyke - Same as in hole CS-1 at 41-46 - 45° CN contact to:					
104.0	108.0	Amphibolite - Mostly amphibole with chlorite and quartz -	Minor po & cp				
108.0	109.0	Ditto - Scattered sulphides -	po ep - 3%				
109.0	117.0	Ditto - ditto -	Minor po & cp				



DIAMOND DRILL CORE LOG — SAMPLE RECORD

PROPERTY Cold Spring Comporte

CS-2 Page 2

HOLE

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE	LENGTH	ZINC	COPPER	GOLD OZ.
117.0	129.0	Anorthositic meta-gabbro - Traces of sulphides -						
129.0	132.0	Alteration zone - Highly carbonatized - Sheared at 50° CN - Rusty section at 131 probable water course and fault at 45° CN -						
132.0	285.0	Anorthositic meta-gabbro - Same as above except 138-146 - Very coarse grained - Crystals up to 2" long - Below 146 alternating sections of coarse & fine to medium grained rock - 174-183 Carbonatized - Below 183 lighter color - more anorthositic - 215-218 Altered slip at 80° CN - Few other altered sections up to 2' long - Carbonatized -						
285.0	287.0	Dyke - Lamprophyre - Lower contact at 30° CN -						
287.0	388.0	Anorthositic meta-gabbro - Scattered sericitized and chloritized sections - Minor po & cp along joints - Relatively uniform grained - Minor amphibolitized sections - 1/2" po at 383 -						
388.0	390.0	Dyke - Acid appearance - Contacts indistinct at 10° CN -						

DIAMOND DRILL CORE LOG — SAMPLE RECORD

PROPERTY Cold Spring Comporte

CS-2 Page 3

HOLE

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE	LENGTH	ZINC	COPPER	GOLD OZ.
390.0	407.0	Anorthositic meta-gabbro - Same as above - Traces of cp at 402' -						
407.0		End of Hole -						

DIAMOND DRILL CORE DG — SAMPLE RECORD

CS-3


TOTAL LENGTH 363'
 CLAIM 203029 Cl. 3
 DEPTH DIP
 COLLAR 47°

PROPERTY Cold Spring - Comporte
 LATITUDE 7+50 N of S. TL
 DEPARTURE 18+00 W
 ELEVATION

STARTED 1 April 64
 FINISHED 4 April 64
 BEARING South

CS-3
 Robert J.M. Miller
 AX
 18+00W
 Surface

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE LENGTH	ZINC %	COPPER %	GOLD OZ.
0.0	22.0	Casing -					
22.0	82.0	Anorthositic gabbro - Chloritized - Relatively coarse grained - Scattered pyrrhotite and chalcopyrite especially in chloritized sections - i.e. at 28, 53' etc. light shear at 53' at 70° CN - 1/2' po & cp veinlet at 75' -					
82.0	85.0	Ditto - po cp veinlets at 30° CN - Fine grained at 84' - po cp - 3%					
85.0	89.0	Ditto - ditto - with carbonate & Qtz. -	Ditto -				
89.0	94.0	Ditto - Coarse grained -	po cp - 6%				
94.0	99.0	Ditto - Fine grained - Altered ? -	po cp - 2%				
99.0	102.0	Ditto - Coarse grained -	po cp - 3%				
102.0	104.0	Ditto - Ditto -	po cp - 8%				
104.0	106.0	Ditto - Silicified -	po cp - 25%				
106.0	109.0	Ditto -	po cp - 8%				
109.0	112.0	Ditto - Coarse grained -	Ditto - 10%				
112.0	115.0	Ditto - Chloritized and amphiboleitized -	po cp - 3%				



DIAMOND DRILL CORE LOG — SAMPLE RECORD

PROPERTY Cold Spring Comporte

CS-3 page 2

HOLE

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE	LENGTH	ZINC	COPPER	GOLD OZ.
115.0	120.0	Ditto - Chlorite amphibole rock -	po cp - 4%					
120.0	124.0	Ditto - Ditto -	Ditto					
124.0	128.0	Ditto - Chlorite - Amphibole rock - Carbonate veinlets -	po py - 6%					
128.0	131.0	Ditto -	po cp - 3%					
131.0	136.0	Ditto -	Ditto -					
136.0	140.0	Ditto -	Ditto -					
140.0	144.0	Ditto - Ditto - Scattered minor sulphides - 45° CN contact to:						
144.0	146.0	Lamprophyre - Altered - Micaceous - 45° CN contact to:						
146.0	158.0	Ditto - Altered anorthositic gabbro - Carbonatized and sericitized - Traces of sulphides						
158.0	163.0	Anorthositic gabbro - Coarse grained - Only slightly chloritized - At 159 1/8" veinlet of red sphalerite -						
163.0	165.0	Lamprophyre * Fresh amphibole mostly - Contacts at 45° CN -						
165.0	177.0	Anorthositic gabbro - Very coarse grained - Crystals up to 1" long - Looks pegmatitic -						

DIAMOND DRILL CORE LOG — SAMPLE RECORD

PROPERTY Cold Spring Comporte

CS-3 Page 3

HOLE

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE	LENGTH	ZINC	COPPER	GOLD OZ.
177.0	213.0	Anorthositic gabbro - Granitic texture - Relatively fresh - Approx. equal proportions of amphibole & feldspar -						
213.0	230.0	Ditto - Same as 165-177 -						
230.0	260.0	Ditto - Alternating sections of medium and fine grained rock - In outcrop would have banded appearance - Banding at 30° - 35° CN -						
260.0	265.0	Ditto - Except highly altered - Sericitized and chloritized - Traces of cp & py - Few steep slips (70° CN)						
265.0	303.0	Ditto - Same as 230-260 -						
303.0	305.0	Ditto - Except contains minor sulphides - In chloritized rock -	po cp - 2%					
305.0	313.0	Ditto - Same as 230-260 -						
313.0	315.0	Dyke - Lamprophyre - Amphibole & feldspar - Contacts at 0° CN -						
315.0	363.0	Banded anorthositic gabbro - Same as 230-260 - Few chloritized section, with traces of sulphides - Near 350 several 1-3" lamprophyre dykelets at 45-60° CN -						
363.0		End of Hole -						

DIAMOND DRILL CORE LOG — SAMPLE RECORD 05.4

TOTAL LENGTH 430'
 CLAIM 203029 Cl. 3
 DEPTH DIP
 COLLAR -40°
 20' 41° 430' 39°
 200' 41°

PROPERTY Cold Spring - Comporte Group CS-4
 LATITUDE 5+00 N of S TL. Robert J.M. Miller
 DEPARTURE 19+00 W AX
 ELEVATION Bell River Water Level 19+00W
 STARTED 5 April 64
 FINISHED 9 April 64
 BEARING N45° W Bell River

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE LENGTH	ZINC %	COPPER %	GOLD OZ.
0.0	14.0	Casing -					
14.0	30.0	Anorthositic gabbro-relatively fine grained - Few chloritic patches and quartz veinlets -					
30.0	52.0	Ditto - Except mostly very coarse grained - Scattered po in lightly chloritized sections -					
52.0	54.0	Ditto - except fine grained - Highly altered evenly chloritized light schistosity at 50° CN -	po cp - 2%				
54.0	55.0	Ditto - Amphibolitized and silicified -	po cp - 3%				
55.0	57.0	Ditto - Intensely silicified - Quartz vein in part -	po cp - 20%				
57.0	59.0	Ditto - ditto -	po cp - 15%				
59.0	61.0	Ditto - ditto -	po cp - 20%				
61.0	63.0	Ditto - Same as 52-54 -	po cp - 2%				
63.0	66.0	Ditto - Same as 52-54 - Fine grained - Altered -					
66.0	134.0	Ditto - Same as 30-52 - At 89-90 chloritized section with minor po & cp - Some fine to medium grained sections -					

DIAMOND DRILL CORE LOG — SAMPLE RECORD

PROPERTY Cold Spring - Comporte

CS-4 page 2

HOL

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE	LENGTH	ZINC	COPPER	GOLD OZ.
134.0	154.0	Ditto - Highly carbonatized (and sericitized?) Schistose at 30° CN - Slip at lower contact at 65° CN -						
154.0	248.0	Meta-gabbro - Relatively fresh - Mostly medium grained with feldspar phenocrysts - Few coarse & fine grained section - Minor po & cp at 210' -						
248.0	260.0	Ditto - Except highly altered - Schistose at 0°- 30° CN - Highly carbonatized -						
260.0	360.0	Ditto - Same as 154.0 - 248.0 -						
360.00	381.0	Meta-gabbro - Except mostly very coarse grained - Large feldspar & amphibole crystals (up to 2" in places)						
381.0	383.0	Ditto - Except highly carbonatized contains minor sulphides, magnetite & leucoxene - Also minor chalcedonic silica -	po cp - 1%					
383.0	400.0	Ditto - Same as 360-381 -						
400.0	401.0	Dyke - Lamprophyre - Distinctive acicular crystals - Contacts irregular at 45° CN -						
401.0	414.0	Coarse meta-gabbro - Same as 360-381 -						
414.0	416.0	Ditto - Except highly altered - Silicified -	po cp - 2%					

DIAMOND DRILL CORE LOG — SAMPLE RECORD

PROPERTY Gold Spring - Comporte

CS-4 page 3 HOU

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE	LENGTH	ZINC %	COPPER %	GOLD OZ.
416.0	420.0	Dyke - Same as 400-401 - Except highly altered - Minor sulphides throughout -						
420.0	423.0	Meta-g bbro - Mostly amphibolitized - Traces of sulphides -						
423.0	430.0	Ditto - Same as 401-414 -						
430.0		End of Hole -						

DIAMOND DRILL CORE LOG — SAMPLE RECORD

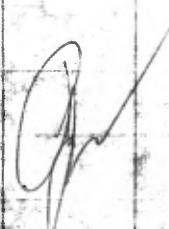
TOTAL LENGTH 310'
 CLAIM 206538 Cl. 4
 DEPTH DIP
 COLLAR 45°
 20° 41° 300' 371°
 150' 39°

PROPERTY Gold Spring Comporte
 LATITUDE 23+70N (N7L)
 DEPARTURE 64+00E
 ELEVATION

Robert J.M. Miller
 AX
 64+00
 Surface
 CS-5

STARTED May 10, 1964
 FINISHED May 12, 1964
 BEARING North

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE	LENGTH	ZINC %	COPPER %	GOLD OZ.
0.0	18.0	Casing -						
18.0	49.0	Meta-gabbro - Chloritized moderately - Scattered carbonate veinlets at 60°-90° CN - At 26 & 28' andesitic dykelets at 50° CN - Relatively fresh at 35', but at 42-45' schistose at 60° CN - May be altered andesitic dyke -						
49.0	87.0	Ditto - Except fine grained and diabasic ? - Relatively homogeneous except for coarser grained section 76-79' - Granitic dykelet & quartz vein at 86 - 87' -						
87.0	90.0	Ditto - Except has po & cp veins -	po cp - 15%					
90.0	92.0	Sulphides - Massive po with cp and M.G. -	po cp - 80%					
92.0	95.0	Meta-gabbro - Same as 87-90 - 8" po section at 94' -	po cp - 25%					
95.0	177.0	Meta-gabbro - Same as 18-46 has scattered phenocrysts (small) of feldspar - At 155 & 157° 4 & 6" dykelets of andesitic rock - At 162' Tr of cp -						



DIAMOND DRILL CORE LOG — SAMPLE RECORD

PROPERTY Cold Spring Comporte

CS-5 page 2

HOL

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE	LENGTH	ZINC	COPPER	GOLD
							%	OZ.
177.0	200.0	Ditto - Except appararently layered - Layers up to 3' thick alternating magnetite-rich & magnetite-poor - Traces of po - Includes minor anorthosite -						
200.0	223.0	Ditto - Except mostly magnetite poor - Fine & medium grained layers -						
223.0	224.0	Biotite schist - Possible altered gabbro - Schistosity at 5° CN -						
224.0	239.0	Altered gabbro - Schistose at 5° CN - Chloritized -						
239.0	246.0	Ditto - Silicified - Quartz vein in part - i.e. 241-242 -						
246.0	256.0	Meta-anorthosite - White to pink with scattered Fe mag. minerals -						
256.0	285.0	Meta-Gabbro - Mostly fine grained - Same as 18-49 - 1' quartz vein at 274-74 -						
285.0	305.0	Anorthositic meta-gabbro - Relatively coarse grained Scattered sulphides - i.e. po & cp & py in coarse altered sections - i.e. at 281, 286 & 294 - No 1' section will assay over 0.3% Cu -						
305.0	310.0	Meta-anorthosite - White - Blotchy Fe mag minerals -						
310.0		End of Hole -						

C.S. 6 C.S.

DIAMOND DRILL CORE LOG — SAMPLE RECORD

TOTAL LENGTH 306'
 CLAIM 206538 Cl. 4
 DEPTH DIP
 COLLAR 45°
 30' 45° 300' 41°
 150' 42°

PROPERTY Gold Spring Comporte
 LATITUDE 22+80N
 DEPARTURE 64+00E
 ELEVATION

Robert J.M. Miller
 EX
 64+00E
 Surface
 CS-6

STARTED 31 May 64
 FINISHED 2 June
 BEARING North

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE	LENGTH	ZINC %	COPPER %	GOLD OZ.
0.0	26.0	Casing -						
26.0	42.0	Meta-gabbro - Medium to fine grained - Altered chloritized moderately magnetic - Scattered minor po - Resembles meta-diabase -						
42.0	55.0	Ditto - Except highly chloritized and carbonatized highly schistose at 45° CN -						
55.0	58.0	Ditto - py + minor cp	py cp - 3%	62	3.0			
58.0	59.0	Ditto - cp veinlets	cp py - 10%	63	1.0			
59.0	61.0	Ditto - Only traces of sulphides -						
61.0	74.0	Ditto - Same as 26 - 42 - 3" euhedral pyrite on contact -						
74.0	75.0	Dyke - Acid - Probable rhyolite - Contacts at 50° CN -						
75.0	77.0	Meta-gabbro - Same as 26 - 42 -						
77.0	88.0	Ditto - Same as 42 - 55 moderately magnetic -						
88.0	116.0	Rhyolite porphyry dyke - Abundant distinct phenocrysts - Contact at 45° CN -						

CS-4

DIAMOND DRILL CORE LOG — SAMPLE RECORD

PROPERTY Gold Spring Comporte Group

CS-6 page 2

HOLE

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE	LENGTH	ZINC %	COPPER %	GOLD OZ.
116.0	158.0	Meta-gabbro - Some anorthositic sections - Medium grained throughout - Carbonatized at 134 - Feldspar largely replaced by carbonate -						
158.0	172.0	Ditto - Except highly altered - Same as 42' - 55' - At 163 and 172 there are 4"-6" section of po and cp in carbonate - May assay 1% Cu over 1' -						
172.0	186.0	Meta-gabbro - Fairly fresh - Medium to fine grained - 0° CN contact to:						
186.0	188.0	Acid dyke - R.P.7 - Dince fresh - 65° CN contact to:						
188.0	263.0	Meta-gabbro. Fine grained resembles meta-dabase - Scattered feldspathic sections and granitic dykelets -						
263.0	276.0	Ditto - Except alternating sections of fine grained and coarse grained rock - The latter is very feldspathic (anorthositic)						
276.0	306.0	Ditto - Except schistose at 0 - 25° CN - Carbonatized, amphibolitized and with minor talc & chlorite in some sections from 295 - 299 has minor py with traces of cp -						
306.0		End of Hole -						

CS7

DIAMOND DRILL CORE LOG — SAMPLE RECORD

Robert J.M. Miller

TOTAL LENGTH 211'
 CLAIM 206538 Cl. 4
 DEPTH DIP
 COLLAR 50°
 18' 51°
 200' 49°

PROPERTY Cold Spring Comporte
 LATITUDE 23+70N
 DEPARTURE 63+50E
 ELEVATION _____

STARTED 3 June 64
 FINISHED 9 June 64
 BEARING North

AX
 63+50E
 Surface
 CS-7

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE	LENGTH	ZINC %	COPPER %	GOLD OZ.
0.0	22.0	Casing -						
22.0	48.0	Rhyolite porphyry dyke - The last five feet have ghost phenocrysts -						
48.0	51.0	Altered gabbro - Minor py & cp and magnetite carbonatized and chloritized -						
51.0	68.0	Meta-gabbro - Medium to coarse grained - Few anorthosite sections - Feldspathic sections carbonatized - 67 - 68 has 3" of py & cp -						
68.0	147.0	Meta-gabbro - Fine grained with only few medium grained sections - Resembles meta-diorite - Trace of cp and minor po in 3" amphibole section at 71' -						
147.0	149.0	Acid dyke - Contacts at 65° CN - R.P. ? - Concentration of phenocrysts at center -						
149.0	200.0	Meta-gabbro - Same as 68-147 - At 158 - 6" acid dyke with contacts at 45° CN - Scattered pegmatitic sections with traces of po & c p At 180 - 6" quartzose section with po & cp -						

CS-7

DIAMOND DRILL CORE LOG — SAMPLE RECORD

PROPERTY Cold Spring Comporte

CS-7 page 2

HOLE

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE	LENGTH	ZINC %	COPPER %	GOLD OZ.
200.0	211.0	Ditto - Except sheared at 0 - 10' CN - Schistose						
		at 0 - 30' CN - Carbonatized -						
211.0		End of Hole -						

DIAMOND DRILL CORE LOG — SAMPLE RECORD

Robert J.M. Miller

TOTAL LENGTH 203'
 CLAIM 206538 Cl. 4
 DEPTH DIP 45°
 COLLAR 45°
 15' 45° 280' 44°
 100' 44°

PROPERTY Cold Spring Comporte
 LATITUDE 23+70N
 DEPARTURE 64+50E
 ELEVATION

STARTED 14 June 64 AX
 64+50E
 FINISHED 10 June 64 Surface
 BEARING North CS-8

FROM	TO	DESCRIPTION	MINERALIZATION	SAMPLE	LENGTH	ZINC %	COPPER %	GOLD OZ.
0.0	14.0	Casing -						
14.00	33.0	Meta-gabbro - Medium to fine grained homogeneous - Has diabasic appearance -						
33.0	37.0	Lamprophyre - Minette - Shearing at 45° CN on edges -						
37.0	115.0	Meta-gabbro - Same as above - Except few granitic dykelets and quartz veins - i.e. at 77 & 52 -						
115.0	117.0	Qtz. carbonate vein with amphibole - 1" po & cp at 115' -						
117.0	137.0	Lamprophyre - Spessartite - Amphibole & feldspar - Relatively fresh - Contacts at 35° CN -						
137.0	161.0	Meta-gabbro - Same as 37 - 115 -						
161.0	162.0	Sulphides in altered gabbro - Edges of minerali- zation at 35°CN - Might assay .3 Cu and .5 Ni -	po cp - 25%	Not sampled				
162.0	203.0	Meta-gabbro - Same as 137-161 - At 201 6" with 10% po & cp - Same as 161-162 -						
203.0		End of Hole -						

