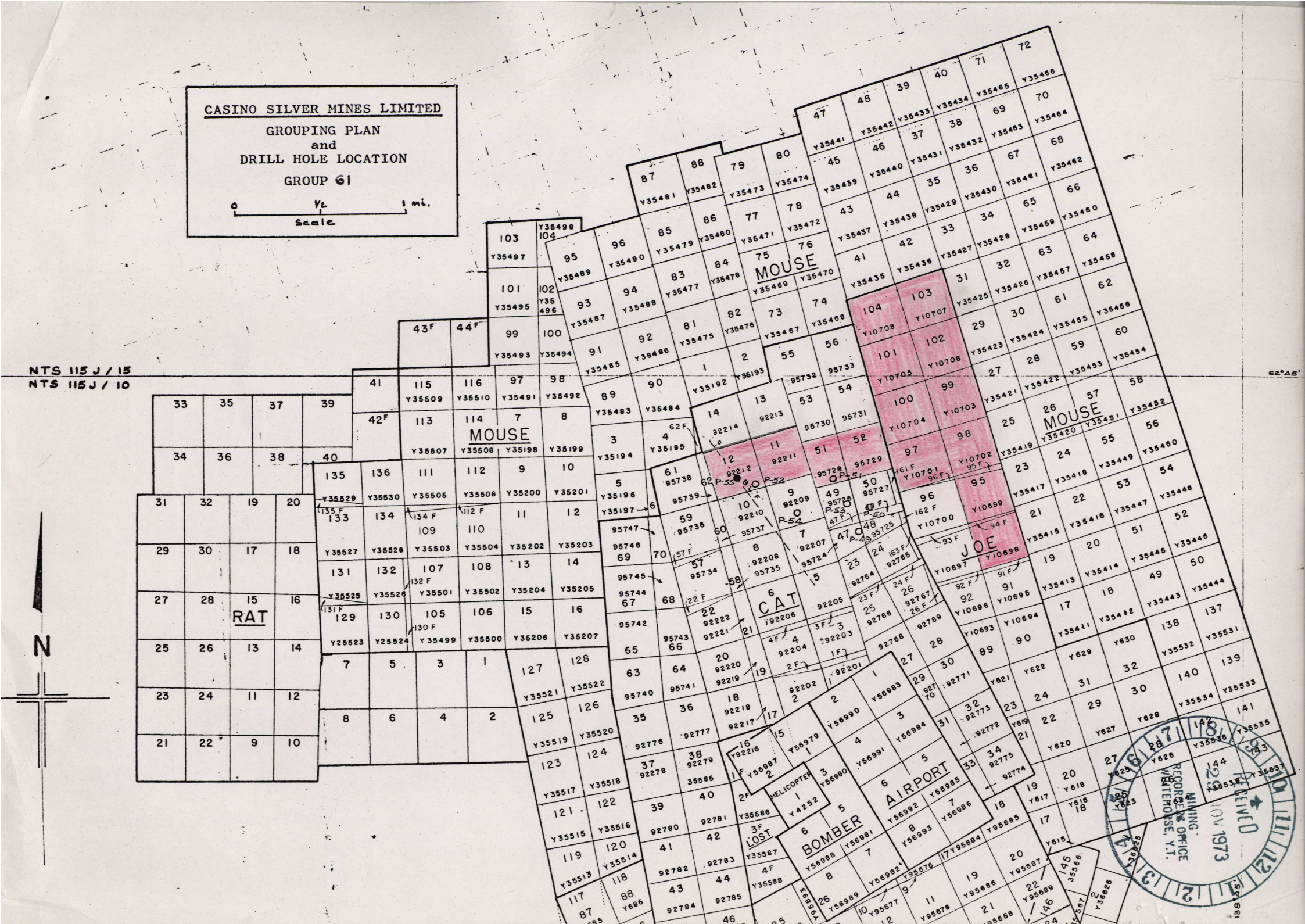
021348

TABLE I

Mineral Claim & Grant Number	Rotary Hole Number	Period Drilled	Footage	Representation allowance in $ based on $9.00/ft.	Total allowance in $'s	Total No. of Claim Years
CAT 5 92205	R-32	August 7 - 8	535	4,815	4,815	48
CAT 7 92207	R-21 R-26	July 20 - 22 July 27 - 28	648 490	5,832 4,410	10,242	102
CAT 9 92209	R-16 R-30	July 3 - 5 August 2 - 4	500 538	4,500 4,842	9,352	93
CAT 10 92210	R-15 R-15A R-18 R-19	June 25 - 28 June 28 - July 2 July 11 - 14 July 15 - 17	395 687 653 559	3,555 6,183 5,877 5,031	20,646	206
CAT 11 92211	R-11 R-12	June 12 - 16 June 17 - 19	309 499	2,781 4,491	7,272	72
CAT 48 95725	R-28 R-31	July 30 - 31 August 4 - 6	309 478	2,781 4,302	7,083	70
CAT 51 95728	R-29	July 31 - August 2	511	4,599	4,599	45
CAT 57 95734	R-17	July 6 - 7	500	4,500	4,500	45
CAT 61 95738	R-20	July 18 - 19	463	4,167	4,167	41


CASINO SILVER MINES LIMITED
GROUPING PLAN
and
DRILL HOLE LOCATION
GROUP 61
0
½
1 mi.
Scale
NTS 115 J / 15
NTS 115 J / 10
62°45'
N
MOUSE
MOUSE
MOUSE
RAT
CAT
JOE
AIRPORT
BOMBER
HELICOPTER
LOST
RECEIVED
NOV 1973
MINING RECORDER'S OFFICE
WHITEHORSE, Y.T.

USERS' MANUAL

NOTES, COMMENTS AND INSTRUCTIONS

DRILL HOLE GEOLOGIC LOG

Chapman, Wood & Griswold Ltd. Form 71-02

1. This log form 71-02 is designed principally for use in computer-oriented information storage and retrieval systems. Additionally it can serve as a visual graphic log, and to a certain extent as a written descriptive log. Proper utilization of the form will enforce a high degree of discipline upon the geologist or engineer responsible for its completion, and should result in improved geologic evaluation, particularly of bulk type low grade metalliferous deposits.

2. In much the same way that metal distribution trends or weighted averages are obtained by computerization, so may we analyze trends of geologic criteria such as fracture density, modes of occurrence of rock types, alteration, etc. If the field data initially is sensibly collected and stored, it will thereafter be readily available at any point in time at which it may be useful to study or re-study environmental criteria of a given deposit.

3. Brief comments written in Columns 8-30, between the vertical dashed lines, will be key punched and printed by the computer, provided the word REMARK is written in Columns 1-6 on that line or REM in Columns 1-3. Do not use lines 5, 10, 15, 20, 25 and 30 (hereinafter referred to as the Code Lines) for remarks. Use only one character or space per Column, 23 in total. "&" for "and" is acceptable.

4. The key punch operator (and computer) will ignore everything written on any line unless the footage is entered in Columns 7-10 (= bottom of interval being described) or unless the word REMARK or REM appears in Columns 1-6 or 1-3 (See 3 above).

5. If any characteristic or value or rock type, etc., continues or remains constant, from one interval to the next, it is only necessary to insert equal signs (=) in the relevant columns. Blanks in any column, for any interval, are normally interpreted as NO COMMENT.

6. In Columns 73-78, on any lines other than a code line, the footage (to nearest foot or tenth of foot) can be recorded for any specimens taken for thin section work or other purpose. This will not be key punched. Further details should be recorded in specimen log book.

7. The letters CNT for contact, FLT for fault, DYK for dyke and VEN for vein, when written in Columns 1-3 on any code line, followed by the footage in Columns 7-10 where these features occur, serve to spatially locate points on these features within the deposit. (See pro forma geologic log).

8. The letters OVB for overburden, CAP for capping, SUP for supergene, TRN for transition, HYP for hypogene and FRX for fresh rock, when written on any code line in Columns 1-3 (followed by the footage in Columns 7-10) informs the reader (and the computer) that the interval being described, of which the footage given is the bottom, consists of rock or material belonging to that named zone (supergene if SUP, overburden if OVB, etc).

9. Normally, for best results, there should be at least one code line filled in for each assayed sample interval, unless the hole passes through a thick section of uninteresting and unmineralized country rock. If a fault, or change of rock type, or dyke etc. occurs within a sample interval, there should then be one code line filled in to mark the point of change in addition to the code line at the end of the sample interval.

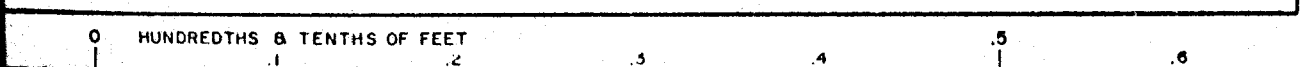
10. Thus the scale of the graphic log is not constant unless the sample interval is constant and no inter-sample significant features are present requiring an extra code line. The graphic log behaves something like an accordian. Portions of it can be stretched out, other parts compressed - depending on the amount of complexity of the geology, mineralization, alteration, etc.

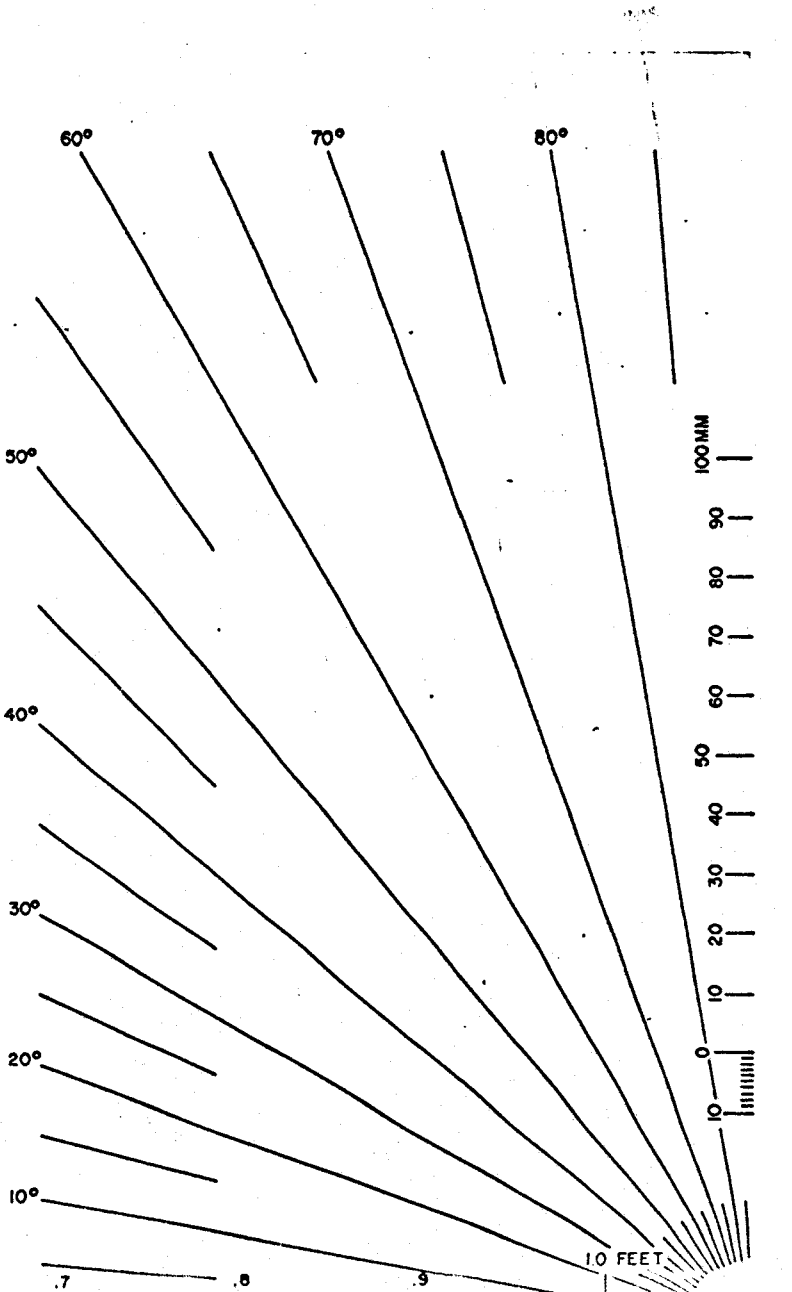
11. This log has a lot of built-in flexibility. Make use of it. Make notes of criticisms and changes that you would like to see incorporated in the system, but try to avoid revising the whole scheme unilaterally, because the various programmes that are developed to process your data won't work unless the basic rules are adhered to. We expect this log to evolve, and by evolving, to improve. But the changes to the log can only be made at the same time that accommodating changes are made to the supporting programmes for processing the data.

IGNEOUS CLASSIFICATION TABLE

	FELDSPARS = FL					
	Na·KFL >2/3 total FL	Na·KFL >1/3, <2/3 tot. FL; PF >2/3, <9/10 tot. FL		Plagioclase = PF >9/10 tot. FL		<10% total FL
				AN<50	AN>50	
	CI 0-20	COLOUR INDEX = CI		10 - 40	CI 40-70	CI>90
artz QZ 0%	rhyolite = RYLT GRANITE =GRNT	quartz latite =QZLT QUARTZ MONZONITE *(ADAMELLITE)* =QZMZ CI 10-20 AN 12-33	rhyodacite = RYDC GRANODIORITE =GRDR CI 15-30 AN 25-40	dacite = DCIT QUARTZ DIORITE *(TONALITE)* =QZDR CI 25-40 AN 35-50	quartz basalt =QZBS QUARTZ GABBRO =QZGB CI 40-70 AN 50-90	(rare)
	ALASKITE	CI<5. Modify: A or L = light		TRONDHJEMITE CI<10 AN 15-30 MODIFY T or L=LIGHT		
artz QZ 0% dspa- ids FD 0%	trachyte =TRCT SYENITE =SYEN CI 5-25 AN 0-30	latite =LTIT MONZONITE =MONZ CI 20-35 AN 25-45	andesite =ANDS DIORITE =DRIT CI 25-40 AN 35-50		basalt =BSLT diabase *(Dolerite)* =DIAB GABBRO =GBBR CI 40-70 AN 50-100 ANORTHOSITE =ANRS	DUNITE = DNIT HORNBLENDITE =HBLD NORITE (*HYPERSTHENE BEARING*) =NORT PERIDOTITE (*<5% OLIVINE*) =PRDT PYROXENITE = PRXN SERPENTINITE =SRPN
dspa- ids FD 0%	phonolite =PNLT FELDSPATHOIDAL SYENITE =FDSY	feldspathoidal latite=FDLT FELDSPATHOIDAL MONZONITE =FDMZ	feldspathoidal andesite =FDAN FELDSPATHOIDAL DIORITE =FDDR		feldspathoidal basalt=FDBS FELDSPATHOIDAL GABBRO =FDGB	(great variety of uncommon rocks with fancy names)

TES: – *Colour Index = CI = % dark minerals (helpful guide, not basis of subdivision)*
– *Anorthosite = AN (%)*
– *Rock names in lower case letters are fine-grained*
– *Rock names in UPPER CASE LETTERS are COARSE-GRAINED*





MAJOR CONTROL

Contacts, Faults, Principal Zones, Dykes, Veins, etc.

1 2 3 4* 5* 6*

C = Contacts
O = Overburden
C = Capping
S = Supergene
T = Transition
H = Hypogene
F = Fault
D = Dyke
V = Vein
F = Fresh rock
R = Remark

* These columns are reserved.

Footage from Collar to Bottom of Interval Described.

7 8 9 10

Thousands — Hundreds — Tens — Units

FRACTURES

Fracture Densities

Gp I	Gp II	Gp III
< 30°	30°-60°	> 60°

Total Fracture Width per 10ft. (or ____)

17 18

In tenths of feet. No decimal point required. Includes gouge, qtz and other vein-filling material.

∠ To axis of core

11 13 15

Quantitative Scale

0 = 0 — 2 fractures / ft
1 = 2 — 4 "
2 = 4 — 8 "
3 = 8 — 16 "
4 = 16 — 32 "
5 = 32 — 64 "
6 = 64 — 125 "
7 = 125 — 250 "
8 = 250 — 500 "
9 = > 500 "

Or: Scale of Relative Abundance

N = Nil; none, not present
L = Low density (trace)
F = Fair density (spotty, sparse)
M = Medium; median, middling
A = Above median; fairly abundant
H = High density; heavy
X = Extremely high; excellent

NOTE: Preferably use quantitative scale. If using scale of relative abundance, use with care and discretion, and calibrate from time to time against counted fracture densities.

Alteration and/or Mineralization Associated with Fractures.

Percentage of fractures in each group having at least some:

Gp I Gp II Gp III

12 14 16

Quantitative Scale (B)

0 = 0 - 5%
1 = 10% ± 5%
2 = 20% "
3 = 30% "
4 = 40% "
5 = 50% "
6 = 60% "
7 = 70% "
8 = 80% "
9 = 85% - 100%

Or: Scale of Relative Abundance

N = Nil; none; no fractures with alteration and/or mineralization
L = Low number
F = Fair number
M = Medium number
A = Above median number
H = High or large number
X = Extreme; essentially all fractures
B = Observed, no estimate of degree

NOTE: If ROTARY or PERCUSSION HOLE use alternative headings as shown.

HOST ROCK

Type Modifier

19

Use any arbitrarily defined single character (letter or number) to allow locality name or any special distinguishing feature, for example, A=Alaskite, S=Sage, F=Pink, H=Hybrid, B=Bethsaide. Must be same for whole area.

Greyness Scale

20

Blank = No comment
1 White
3 Light Grey
5 Medium Grey
7 Dark Grey
9 Black

Alternatively, to indicate deviation of colour index from normal, for that rock type, use:

L Lighter (leucocratic)
N Normal (mesocratic)
D Darker (melanocratic)

Texture or Structure

24

I. Igneous rock

(a) Porphyritic

Conspicuous Texture	Estimated Percent Phenocrysts		
	> 40%	10-40%	< 10%
Phaneritic	Granite (porphyritic)	Granite (porphyritic)	Granite or Porphyrite (porphyritic)
	Rhyolite (porphyritic)	Rhyolite (porphyritic)	Rhyolite or Porphyrite (porphyritic)
Aphanitic or Glassy	Porphyry	Porphyry	Aphanitic or Glassy

(b) Non-porphyritic

E Equigranular
I Inequigranular
H Graphic
Microlitic
Ø Ophitic
D Diabasic
V Vesicular
A Amygdaloidal
S Spherulitic
P Poikilitic

II. Sedimentary

L Laminated
N Thinbedded
U Mediumbedded
K Thickbedded
X Crossbedded
B Bioclastic
C Chemical
F Fissile
T Clastic
R Oolitic (pisolitic)

III. Metamorphic

Q Porphyroblastic
L Lineated
W Foliated
G Granulose
Y Slaty
M Migmatic

IV Spares

J
Z

Grain Size

25

9 Boulder — Megapeg
8 Cobble — 256 mm — Pegmatitic
7 64
6 Pebble
5 (3) Granule — 4 — Coarse-grained
4 2 — Medium-grained
3 Sand (2) — 1/16 — Fine-grained
2 Silt — 1/256 — Aphanitic
1 Clay — Glassy

Millimetre scale — Sedimentaries — Igneous (phenocrysts if porphyritic), Metamorphics and Chemicals

Colour Range or Hue

21

R Red(dish)
Ø Orange(-ish)
Y Yellow(ish)
G Green(ish)
B Blue(ish)
P Purple(ish)
T Tan = Brown (ish)

Accessory Mineral

22 23

Use 2-letter mineral code attached (see some for biotite-horneblende pairs).

Rock Type

26 27 28 29

Use 4-letter rock type code. If not on list ask for acceptable code.

ALTERATION ASSEMBLAGES

Mode of Occurrence

Quartz 30 32 | K-Spar 34 | Biotite 36 | Sericite 38 | Pyrite 40 | Clays 42 | Chlorite 44 | Epidote 46 | Carbonates

V = Veins
E = Envelopes
P = Pervasive
2 = Veins + Envelopes
3 = Veins + Pervasive
4 = Envelopes + Pervasive
5 = Veins + Envelopes + Pervasive
6 = Stockwork
0 = Gouge
Ø = Blank = No comment

Additional unique single characters may be defined, consistent for whole project area.

Amount = Estimated percentage of each mineral present (by volume)

31 33 35 37 39 41 43 45 47

Quantitative Scale (A)

Ø = Blank = No comment
0 = Nil or absent
1 = Trace to 1/4 %
2 = 1/4 % — 1/2 %
3 = 1/2 % — 1 %
4 = 1 % — 2 %
5 = 2 % — 4 %
6 = 4 % — 8 %
7 = 8 % — 16 %
8 = 16 % — 32 %
9 = > 32 %

Or: Scale of Relative Abundance

N = Nil; none
L = Light (trace)
F = Fair; fairly light
M = Medium
A = Above median
H = Heavy; high
X = Extra heavy
B = Observed; no estimate of degree

Note: Same scale as in columns 11-18.

Other Minerals

48 49 | 50 51

52 Principal Facies

Blank
Undecided
Hypogene: Supergene, Quartz flooding, Kaolinite, Phyllic, Argillic, Propylitic
Supergene or Hypogene*
Fresh rock, no alteration

Summary of overall alteration - greatest volume, only, described. Other minerals only, only if important.

Carbonates — AH; TO
Epidote — PP; TZ, CK
Chlorite — KA; MM
Clays — AL, ZE
Pyrite
Sericite
Biotite
K-Spar
Quartz

AH = Anhydrite; TO = Tourmaline; PP = Pyrophyllite; TZ = Topaz; CK = Dickite; KA = Kaolin; MM = Montmorillonite; AL = Alkite; ZE = Zeolite; ↓ = Subordinate; ← = Dominant

Intensity of Alteration

53

9 Very strong
7
5 Moderate
3
1 Very weak

Or: Use Scale of Relative Abundance

N L M F A H X B

See Columns 12 or 31

LIMONITES

Type

64

I Indigenous - deposited within space formerly occupied by sulphide, or other material, leached away
F Fringe - from iron solutions that have moved a few cm., or less, from parental material
E Exotic - from iron solutions that have moved up to great distances from parental material - source unknown
M Mixed - Indigenous + Fringe if mixed with Exotic, record I or F because these categories are of greatest importance

State of Cavities and Fracture Voids

Cavities — Fractures — voids

55 66

M Massive filling
S Semi-massive
L Lined inside surface
E Empty
B Boxwork (describe in remarks)

Examples:
Inert - quartz
Moderate - felspar, clays, muscovite
Strong - calcite

Gangue Reactivity

57

9 Strong
7
5 Moderate
3
1 Inert

Colour - minerals controlling colour

Jurassic yellow 58 | Goethite brown 59 | Hematite red 60 | Other 61

9 = 90% ± 10%
7 = 70% "
5 = 50% "
3 = 30% "
1 = 10% "
0 = 0%

Or: Alternatively, Use Munsell Rock Colour Chart

58 59 | 60 61

		VALUE (lightness)	CHROMA (saturation)
00	= 10RP	9 = White	
05	= 5R	8 = Very light grey	
10	= 10R	7 = Lt grey	
15	= 5YR	6 = Med lt grey	
20	= 10YR	5 = Med grey	
25	= 5Y	4 = Med dk grey	
30	= 10Y	3 = Dark grey	
35	= 5GY	2 = Greyish black	
40	= 10GY	1 = Black	
45	= 5G	0	
50	= 10G		
55	= 5BG		
60	= 10BG		
65	= 5B		
70	= 10B		
75	= 5PB		
80	= 10PB		
85	= 5P		
90	= 10P		
95	= 5RP		
00	= 10RP		

NOTE: All designations from 00 to 99 may be used.

E.G. A colour slightly more yellow than 20=10YR would be 21or22.

Symbols Used on Graphic Log

Contacts (definite; approx.)
Fault — D — A
Joints — D — A
Veins — D — A
Dykes (small dykes not represented by 2 contacts)

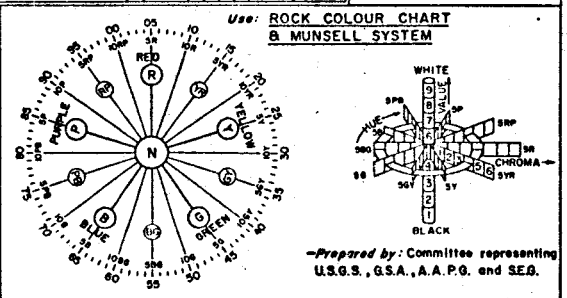
A = ∠ to core axis (Always draw angle clockwise from core axis, unless double angle observed in single core specimen)

D = Density of associated fractures/foot

x=x', y=y', etc. = 2-letter code of minerals present in vein, etc.

NOTE:
0 = Numeric Ø = O = Alphabetic
1 = I = Numeric I = l = Alphabetic
2 = Numeric Z = Alphabetic

Use: ROCK COLOUR CHART & MUNSELL SYSTEM



—Prepared by: Committee representing U.S.G.S., G.S.A., A.A.P.G. and S.E.G.

MINERALIZATION

Mode of Occurrence

Pyrite 62 | Chalcopyrite 64 | Molybdenite 66 | Chalcocite on gangue 68 | Chalcocite other 70

V Veins
D Disseminations
> Disseminations > veins
Disseminations = veins
< Disseminations < veins

Other Minerals

72 73 | 74 75

Use 2-letter mineral code

Estimated Amount Present

Pyrite 63 | Chalcopyrite 65 | Molybdenite 67 | Chalcocite on gangue 69 | Chalcocite other 71

Quantitative Scale (A)

Ø = Blank = No comment
0 = Nil or absent
1 = Trace - 1/4%
2 = 1/4% - 1/2%
3 = 1/2% - 1%
4 = 1% — 2%
5 = 2% — 4%
6 = 4% — 8%
7 = 8% — 16%
8 = 16% — 32%
9 = > 32%

Or: Quantitative Scale (B)

Ø = Blank = No comment
0 = 0 - 5%
1 = 10% ± 5%
2 = 20% "
3 = 30% "
4 = 40% "
5 = 50% "
6 = 60% "
7 = 70% "
8 = 80% "
9 = 85% - 100%

Or: Scale of Relative Abundance

N = Nil; none
L = Little; trace
F = Fairly light to fair
M = Medium
A = Above median
H = Heavily mineralized
X = Extremely well min'd.
B = Observed; no estimate of amount

Spares

76 77 78

Reserved

79 80

2 - LETTER MINERAL CODE

actinolite	- AC
albite	- AL
andalusite	- AD
anhydrite	- AN
anorthite	- AN
apatite	- AP
aragonite	- AR
arsenopyrite	- AS
augite	- AG
azurite	- AZ
asbestos	- AB
barite	- BA
beryl	- BE
biotite	- BI
bornite	- BO
calcite	- CA
carbonates	- CB
chalcedony	- CD
chalcocite	- CC
chalcopyrite	- CP
chlorite	- CL
chromite	- CR
chrysotile	- CS
clays	- CY
cordierite	- CO
cuprite	- CT
covellite	- CV
copper	- CU
dickite	- DK
diopside	- DI
dolomite	- DO
epidote	- EP
feldspars	- FL
ferrimolybdite	- FM
fluorite	- FU
feldspathoids	- FD
galena	- GL
garnet	- GA
glass	- GS
glancophane	- GC
glauconite	- GN
goethite	- GO
graphite	- GR
gypsum	- GY
hematite (general)	- HE
(specularite)	- HS
hornblende	- HB
hyperthene	- HY
ilmenite	- IL
jarosite	- JA
kaolin	- KA
kyanite	- KY
leucite	- LU
limonite	- LI
magnesite	- MA
magnitite	- MG
malachite	- MC
manganite	- MN
mariposite	- MR
montmorillonite	- MM
muscovite (general)	- MU
(sericite)	- MS
micas	- MI
molybdenite	- MO
nephelene	- NP
olivine	- OL
opal	- OP
orthoclase	- KF
opaques	- OQ
plagioclase	- PF
phlogopite	- PH
pyrite	- PY
pyrolusite	- PL
pyroxene	- PX
pyrrhotite	- PR
pyrophyllite	- PP
quartz	- QZ
rutile	- RU
rhodochrosite	- RO
sanadine	- SA
scapolite	- SC
scheelite	- SH
serpentine	- SR
siderite	- SD
sillimanite	- SI
sphalerite	- SL
sphene	- SP
staurolite	- ST
stibnite	- SB
sericite	- MS
specularite	- HS
sodalite	- SO
sulphides, unspec.	- SX
talc	- TA
tenorite	- TE
tetrahedrite	- TT
tourmaline	- TO
topaz	- TZ
tremolite	- TR
wad	- WD
zeolites	- ZE
zircon	- ZR
zoisite	- ZO

Mineral Combination:

BI and HB both present -

biotite > hornblende	- B>
biotite = hornblende	- B#
biotite < hornblende	- B<

GL and SL both present -

galena > sphalerite	- G>
galena = sphalerite	- G#
galena < sphalerite	- G<

4 - LETTER ROCK TYPE CODE

IGNEOUS ROCKS

General Types

dyke	- DYKE
igneous	- IGNS
plutonic	- PLNC
volcanic	- VLCC
porphyry	- PPRY

Dyke Rocks

alaskite *	- ALSK
aplite	- APLT
diabase (dolerite)	- DIAB
lamprophyre	- LAMP
pegmatite	- PEGM

Plutonic Rocks

alaskite *	- ALSK
breccia	- BRPL
diorite	- DRIT
gabbro	- GBBR
granite	- GRNT
granodiorite	- GRDR
monzonite	- MONZ
quartz diorite (tonalite)	- QZDR
quartz gabbro	- QZGB
quartz monzonite (adamellite)	- QZMZ
Syenite	- SYEN
trondjemite	- TRDJ

Ultramafic Plutonic Rocks

anorthosite	- ANRS
dunite	- DNIT
hornblendite	- HBLD
norite	- NORT
peridotite	- PRDT
pyroxenite	- PRXN
serpentinite	- SRPN

Feldspathoidal Plutonic Rocks

feldspathoidal diorite	- FDDR
feldspathoidal gabbro	- FDGB
feldspathoidal monzonite	- FDMZ
feldspathoidal syenite	- FDSY

Miscellaneous Plutonic

carbonatites	- CRBN

Volcanic Rocks

andesite	- ANDS
basalt	- BSLT
breccia	- BRVL
dacite	- DCIT
diabase (dilerite)	- DIAB
feldspathoidal andesite	- FDAN
feldspathoidal basalt	- FDBS
feldspathoidal latite	- FDLT
latite	- LTIT
phonolite	- PNLT
quartz basalt	- QZBS
quartz latite	- QZLT
rhyodacite	- RYDC
rhyolite	- RYLT
trachyte	- TRCT

METAMORPHIC ROCKS

Progressive Metamosphism

amphibolite	- AMPB
gneiss	- GNSS
granofels	- GRFL
granulite	- GRNL
greenschist	- GRSC
greenstone	- GRSN
lit-par-lit gneiss	- LTGN
migmatite	- MGMT
mixed gneiss	- MXGN
orthogneiss	- ORGS
paragneiss	- PRGS
phyllite	- PHYL
quartzite	- QZIT
schist	- SCHS
serpentinite	- SRPN
slate	- SLTE

Contact Metamorphic Rocks

cale-silicate rock	CLCC
hornfels	- HRFL
marble	- MRBL
pyroclasite	- PRCL
pyroxenite	- PRXN
skarn	- SKRN
tactite	- TCTT

Cataclastic Metamorphic Rocks

augen gneiss	- AUGN
cataclasite	- CCLS
mylonite	- MLNT

SEDIMENTARY ROCKS

Detrital & Epiclastic Rocks

argillite	- ARGL
arkose	- ARKS
breccia	- BRCC
claystone	- CLSN
conglomerate	- CGLM
greywacke	- GRWK
mudstone	- MDSN
quartzose sandstone	- QZSS
sandstone	- SNDS
shale	- SHLE
siltstone	- SLSN

Chemical-biogenic Rocks

carbonaceous rocks	- CRBC
chert	- CHRT
clastic limestone	- CLLS
coquina	- COQN
dolomite	- DOLM
evaporite	- EVPR
ironstone	- IRNS
limestone	- LSTN
oolitic limestone	- OOLS
phosphorite	- PSPR

Pyroclastic Rocks

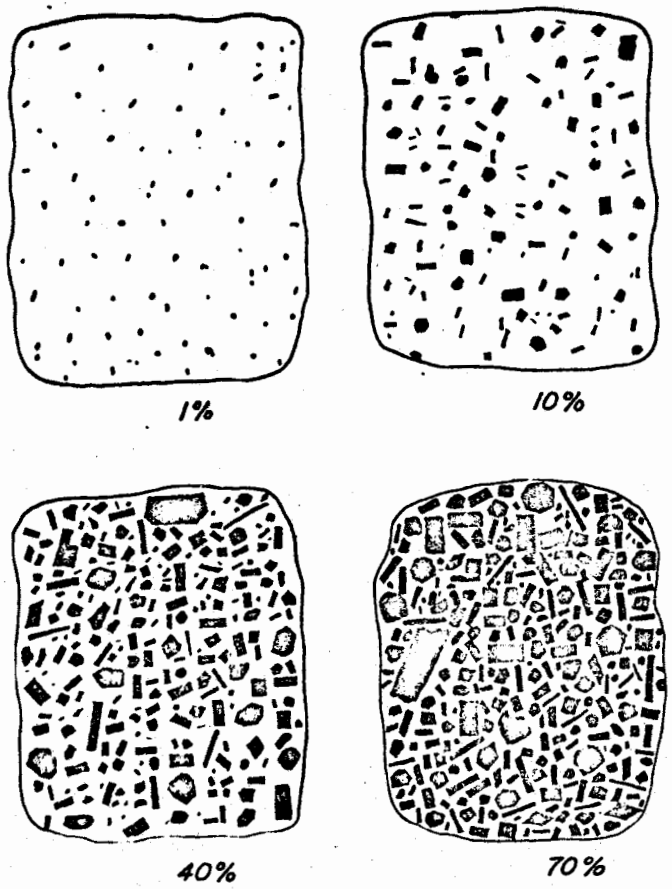
agglomerate	- AGLM
breccia	- BRPC
ignimbrite	- IGMB
tuff	- TUFF

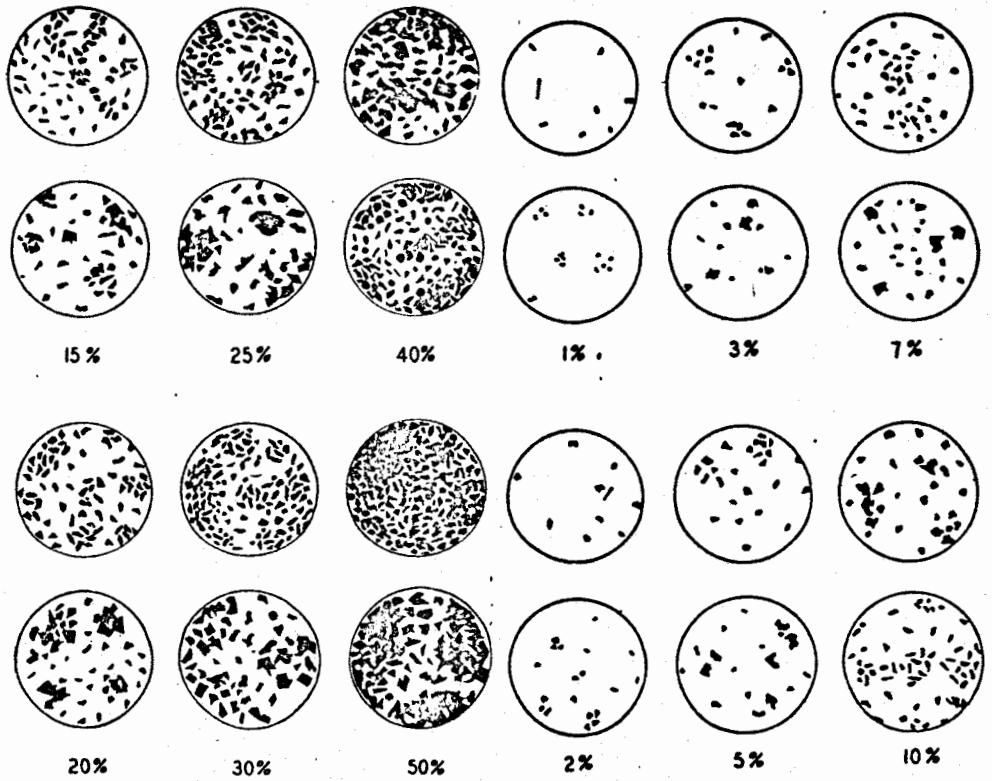
BRECCIAS, Unspecified Origin

Undivided	- BRXX
Mainly Angular Fragments	- BRA☐
Mainly Rounded Fragments	- BRR☐

- with 4th character 0 to 9, giving % of matrix to total rock.
  Use Quantative Scale A

* Use modified appropriate rock type or 4-letter code as shown


1%
10%
40%
70%


15%
25%
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3%
7%
20%
30%
50%
2%
5%
10%

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB.1971 PAGE 1 OF 8

TYPE OF HOLE: DDH / RDH ✓ / PDH

MINERALIZATION PERCENT BY (A) ✓ OR (B)

ELEMENTS OR MINERALS: Cu | MoS2

Cu (actual)	MoS2 (actual)	Contacts and principal zones	Bottom of interval described	Col. 20 (value)	Grain size (25)	Rock type (26–29)	Quartz QZ mode/amount (30–31)	Biotite BI mode/amount (34–35)	Sericite MU mode/amount (36–37)	Other H# (50–51)	Principal facies (52)	Intensity (53)	Limonite type (54)	Cavities (55)	Fracture voids (56)	Gangue reactivity (57)	% Jarosite (58)	% Goethite (59)	% Hematite (60)	Limonite intensity (62)
		ØVB	2.2																	
.019	TR	CAP	3.0	8	3	APLT	PF	PF	PF	MG	7	F	I	S	L	5	4	5	1	F
.030	TR	CAP	4.0	8	4	APLT	PM	PA	PF		7	M	I	L	L	5	9	0	1	F
.025	TR	CAP	5.0	8																
.049	.005	CAP	6.0	8	3	APLT	PM	PL	PM		7	L	I	L	L	5	9	0	1	F
.060	.011	CAP	7.0	8	4	APLT	PM	PF	PM		7	F								

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB.1971

HOLE NUMBER R- 11

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

MINERALIZATION PERCENT BY (A) ☑ OR (B) ☐ SCALE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS2

Cu (actual)	MoS2 (actual)	Contacts and principal zones	Bottom of interval described	Host rock col. 20	Grain size	Rock type	Quartz QZ	Biotite BI	Sericite MU	Other H#	Principal facies / intensity	Limonites (cols 54–62)
.041	.005	CAP	8.0	7	4	APLT	PA	PM	PM		7M	I L L 5 8 1 1 F
.032	.003		9.0	7	3	APLT	PA	PF	PM		7F	(struck through)
.040	.003		10.0	7	(struck through)	(struck through)	PA	PF	PM		7F	(struck through) M
.039	.005		11.0	7	(struck through)	(struck through)	PA		PA		5A	(struck through)
.041	.003		12.0	6	3	APLT	3A		PA		5A	I L L 5 9 1 a F
.022	.003		13.0	8	3	APLT	PA		PA	HE	5A	I L L 5 8 1 1 F

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R-11

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB. 1971

CW&G FORM 7-62

DIP ____ AZIM. ____

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC DENSITIES // TO AXIS OF CORE — Fractures/foot, Altered & Fracs or Min., Fractures/foot, Fractures/foot Altered & Fracs or Min., Fractures/foot Altered & Fracs or Min. — or RDH/PDH CUTTINGS — Large frag. ment dia. in meter in mm, Percent Coarse, Min. Meas. Min. Minutes per foot, Caving & Swelling

HOST ROCK — TYPE MODIFIER (Enter non normal; Or Use Rock Colour Chart and Munsell System); Volcanic Rocks, Intrusive Rocks, Sedimentary Rocks: Alphabetic colour of Host Rock; Volcanic Rocks, Sedimentary Rocks: Alphabetic colour of Fines; ACCESSORY MINERAL(S); TEXTURE; GRAIN SIZE; ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES — QUARTZ QZ; K-SPAR KF; BIOTITE BI; SERICITE MU; PYRITE PY; CLAYS CY; CHLORITE CL; EPIDOTE EP; CARBONATES CB; OTHER T#; OTHER H#; MODE OF OCCURRENCE; MODE; AMOUNT; Use Letter code at each interval required, or as headings in spaces above; PRINCIPAL FACIES; INTENSITY

LIMONITES — TYPE Ingenous, Fringe or Exotic; CAVITIES; FRACTURE VOIDS; GANGUE REACTIVITY; MINERALS CONTROLLING COLOUR % JAROSITE, % GOETHITE, % HEMATITE, % Or Use Rock Colour Chart and Munsell System; LIMONITE INTENSITY

MINERALIZATION PERCENT BY (A) ☑ OR (B) ☐ SCALE — PYRITE, CHALCOPYRITE, MOLYBDENITE, CHALCOCITE ON GANGUE, CHALCOCITE, OTHER, OTHER; MODE, AMOUNT

TOTAL FRAC #/FT in terms of feet, X

ALTERATION ZONE & HOST ROCK

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

COARSE → HEAVIES → WATER FLOAT → OTHER REMARKS & COMMENTS →

VISUAL ESTIMATES / ACTUAL ASSAYS

.042 | .003 — CAP — 140 — 8 — 4 A P LT P A — P M P M — 7 M — I L L 5 9 1 0 — F

C

H

W

VISUAL

.020 | .003 — CAP — 150 — 8 — 3 A P LT 3 A — P M — P A — 5 F — I L L 5 7 3 0 — F

C

H

W

VISUAL

.012 | .008 — CAP — 160 — 8 — 3 A — P A — M G 5 A — I S L 5 7 3 0 — F

C

H

W

VISUAL

.070 | .019 — CAP — 170 — 6 — 4 A P LT P M — P F P A — 7 A — I L L 5 9 0 0 — F

C

H

W

VISUAL

.130 | .014 — CAP — 180 — 6 — 3 A P LT P M — P F P A — P 4 — H E 7 A — I L L 5 9 0 0 — F 2 1

C

H

W

VISUAL

.050 | .014 — CAP — 190 — 6 — 3 A P LT P M — P F — P 4 — 7 F — I 4 4 5 9 1 6 0 — F # 1 1 — V 1 1

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD. (C.W.G.)

COMPANY: BRAMEDA RESOURCES LIMITED   PROPERTY: CASINO   LOGGED BY: CG   DATE FEB.1971

HOLE NUMBER R-11   PAGE 4 OF 8   CWG FORM

DIP ___ AZIM ___   TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

Column groups: ALTERATION / ZONE & HOST ROCK; ESTIMATES & ASSAYS (ELEMENTS OR MINERALS: Cu, MoS2); CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water Float; BOTTOM OF INTERVAL DESCRIBED; FRAC DENSITIES ⊥ TO AXIS OF CORE (Fractures/foot, % Fracs Altered or Min) or RDH/PDH CUTTINGS (Large fragment diameter in mm, Percent Coarse, Wet Moist or Dry, Minutes per foot, Caving & Swelling); HOST ROCK (Type Modifier, Lighter than normal / Greener than normal / Alteration colour of Host Rock, Value 1 to 9 / Black, 9 = white, Alphabetical colour of Fines, or use Rock Colour Chart and Munsell System; Accessory Mineral(s); Texture; Grain Size; Rock Type – use 4-letter code); ALTERATION ASSEMBLAGES (Quartz QZ, K-Spar KF, Biotite BI, Sericite MU, Pyrite PY, Clays CY, Chlorite CL, Epidote EP, Carbonates CB, Other TØ, Other H#; Mode of occurrence / Amount; Use a letter code at each interval required, or as headings in spaces above; Principal Facies; Intensity); LIMONITES (Type – Indigenous, Fringe or Exotic; Cavities; Fracture Voids; Gangue Reactivity; Minerals controlling colour: % Jarosite, % Goethite, % Hematite, %; or use Rock Colour Chart and Munsell System; Limonite Intensity); MINERALIZATION PERCENT BY (A) ☑ OR (B) ☐ SCALE (Pyrite, Chalcopyrite, Molybdenite, Chalcocite on Gangue, Chalcocite, Other, Other; Mode / Amount); TOTAL FRAC LENGTH.

Card columns 1–80. Each interval has rows C (Coarse), H (Heavies), W (Water Float), Other Remarks & Comments, Visual Estimates, Actual Assays.

Cu (actual assay)	MoS2 (actual assay)	Contacts / Principal Zones	Bottom of Interval	Host Rock	Rock Type	Alteration Assemblages	Principal Facies	Limonites	Mineralization
.047	.011		200	6	4APLT	3A PMPA PL	7M	ILL59110 F	D1
.061	.014	CAP	210	6	4APLT	PA PMPA	7M	ILL5900 L	D1
.300	.019	SUP	220	6	3APLT	PA PMPA	7M	I 459110 L	<3 ; V1V1
.240	.022	SUP	230	6	3APLT	PA PMPA	7M	N	<3 D1 ; V1 D1
.370	.008	SUP	240	6	3APLT	3A PMPA PL	7M	W	<3 D1 ; <1 D1
.260	.014	SUP	250	4	3APLT	3A PFPA PL MG	7F	N	<3 D1 ; <1 D1 CV

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB. 1971 PAGE 5 OF 8

DIP AZIM. TYPE OF HOLE DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS2

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS: Or Coarse, Heavies & Water Float

BOTTOM OF INTERVAL DESCRIBED

FRAC DENSITIES (∠ TO AXIS OF CORE) — Fractures/foot; Filled % Fracs or Mins

or RDH/PDH CUTTINGS AND LOGGING: Large Fragments in mm; Percent Coarse; Minutes per foot or Cm per foot; Drilling Rate Penetration in Minutes per foot

HOST ROCK: TYPE MODIFIER (Lighter than normal; Darker than normal; Variegated; Or Use Rock Colour Chart and Munsell System); ACCESSORY MINERAL(S); TEXTURE; GRAIN SIZE; ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ; K-SPAR KF; BIOTITE BI; SERICITE MU; PYRITE PY; CLAYS CY; CHLORITE CL; EPIDOTE EP; CARBONATES CB; OTHER TØ; OTHER H#; PRINCIPAL FACIES; INTENSITY — MODE OF OCCURRENCE, MODE, AMOUNT

LIMONITES: TYPE (Indigenous, Fringe or Exotic); CAVITIES; FRACTURE VOIDS; GANGUE REACTIVITY; MINERALS CONTROLLING COLOUR: % JAROSITE, % GOETHITE, % HEMATITE, % (Or Use Rock Colour Chart and Munsell System); LIMONITE INTENSITY

MINERALIZATION PERCENT BY (A) ☑ OR (B) ☐ SCALE: PYRITE, CHALCOPYRITE, MOLYBDENITE, CHALCOCITE ON GANGUE, CHALCOCITE, OTHER, OTHER — MODE, AMOUNT

TOTAL FRAC WIDTH

STRUCTURE AND/OR ALTERATION ZONE & HOST ROCK

VISUAL ESTIMATES / ACTUAL ASSAYS		COARSE / HEAVIES / WATER FLOAT / OTHER REMARKS & COMMENTS	
.440 / .014	SUP	2.6.0	5 | 3 | APLT | 3A | PMPA | PL | 7M | N<3 | K1
	REM	FAULT GOUGE ATP ?	
.460 / .114	SUP	2.7.0	5 | 3 | APLT | PM | PFPM | PF | PL | 7F | N #3 | #1
.167 / .014	SUP	2.8.0	6 | 3 | APLT | PH | PH | HG SH IS | S | 1 3 6 F<4 D1 D1 K1 D1
.190 / .022	SUP	2.9.0	6 | 3 | APLT | PF | PF | PF | ST IS | S | 9 | F #3 D1 | #1 D1
.119 / .008	SUP	3.0.0	6 | 3 | APLT | PH | PH | SH IL | S | 9 | L<3 | K1
.239 / .022		3.1.0	6 | 3 | APLT | PH | PH | 5 H IL | S | 2 8 | L<4 | K1

C.W.&G. CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB.1971

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS_2

Cu (actual)	MoS_2 (actual)	Contacts and Principal Zones	Bottom of Interval Described	Host Rock (col. 20)	Rock Type	QZ	BI	MU	Other (H#)	Principal Facies / Intensity	Limonite Type	Fracture Voids	Goethite	Limonite Intensity	Pyrite	Molybdenite	Chalcocite on Gangue	Other
.168	.014	SUP	3.20	7	3 APLT	PA		PM		5M	IS	5	9	2	#3	D1	#1	
.085	.008	SUP	3.30	7	3 APLT	PM	PF	PM		7F	IS	7	9	L	<3		<1	CY
.100	.008	SUP	3.40	7	3 APLT	PM	PM	PM	MG	7M	IS	7	9	L	<3	D1	<1	CY
.045	.005	SUP	3.50	7														
.038	.014	HYP	3.60	7	4 APLT	PM	PF	PM	HE	7F				N	>4	D1		
.054	.025	HYP	3.70	7	4 APLT	3A	PM	PM	HE	7M				N	>4	D1		

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R-11

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB. 1971

DIP ____ AZIM ____ TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

MINERALIZATION PERCENT BY (A) ☑ OR (B) ☐ SCALE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS2

(IF ROTARY OR PERCUSSION HOLE) COMMENTS: COARSE, HEAVIES, WATER FLOAT, OTHER REMARKS & COMMENTS

Cu (actual)	MoS2 (actual)	Contacts and Principal Zones	Bottom of Interval Described	Host Rock: Col. 20	Grain Size / Rock Type (cols 25–29)	Quartz QZ	Biotite BI	Sericite MU	Clays CY	Other (H#)	Principal Facies / Intensity	Limonites (cols 54–61)	Limonite Intensity / Pyrite	Chalcopyrite / Molybdenite / Chalcocite	Other
.090	.014	SUP	38.5	7	3 APLT	PM		PM			5M		N#3	D1 #1	
.185	.017	SUP	40.0	7	3 APLT	PM	PL	PM			74		N#3	D1 #1	
.100	.014	SUP	41.5	7	3 APLT	PM	PF	PM			7F		N<3	D1 D1	
.117	.028	SUP	43.0	7	3 APLT	PM		PM	PA		5M	13 79 1 1	L<3	K1	
.059	.025	SUP	44.5	7	3 APLT	PM	PF	PM	PL	H<	7F	(struck through)	L<3	K1	GY
.090	.014	SUP	46.0	7	(struck through)										

Sd. Fe.

CW&G — Chapman, Wood and Griswold Ltd.

DRILL HOLE GEOLOGIC LOG

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB. 1971

HOLE NUMBER R-11

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE

Elements or minerals: Cu, MoS2

Cu (actual assay)	MoS2 (actual assay)	Contacts and principal zones	Bottom of interval described	Host rock (col. 20)	Grain size / Rock type (cols. 25–29)	Quartz QZ (cols. 30–31)	Sericite MU (cols. 36–37)	Principal facies / Intensity (cols. 52–53)	Limonite intensity / Pyrite (cols. 62–64)	Mineralization (cols. 69–70)
.110	.028	SUP	475	7	3 APLT	PM	PM	5M		
.062	.053	SUP	490	6	3 APLT	3A	PM	5M	L<3	K1
.040	.008	SUP	500	7	3 APLT				L<3	K1

Remarks: NO CB

DRILL HOLE GEOLOGIC LOG

Chapman, Wood and Griswold Ltd. (CW&G)

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB. 1971 PAGE 1 OF 6

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS_2

Cu (actual)	MoS_2 (actual)	Contacts and principal zones	Bottom of interval described	Type modifier (17)	Colour (19–20)	Grain size / Rock type (25–29)	Quartz QZ (30–31)	K-spar KF (32–33)	Biotite BI (34–35)	Sericite MU (36–37)	Pyrite PY (38–39)	Other (50–51)	Principal facies (52–53)	Limonites (54–62)	Remarks
		ØVB	2.0												
		REM													P.DCIT CHIPS
.019	.003	CAP	3.5		8	3 APLT	PH			PH	PF		5H	I L L 5 9 1 0 F	
.012	TR	CAP	5.0		8	(struck out)	3H			PH	PF		5H	(struck out)	
.020	TR	CAP	6.5		8	3 APLT	6H	PL ?	PL	PH			7L	I L S 5 5 4 1 F	
.020	.005	CAP	8.0	A	8	DCIT	PA		PL	PH		HE	5H	I S 5 7 2 1 L	remnant?
.020	TR	CAP	9.5	A	8	DCIT	PA		PF	AH			7F	I L S 5 9 1 0 F	

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB.1971

DIP ___ AZIM. ___ TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

MINERALIZATION PERCENT BY (A) ☑ OR (B) ☐ SCALE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS2

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water/foot — COARSE, HEAVIES, WATER, FLOAT, OTHER REMARKS & COMMENTS

Cu	MoS2	Contacts and principal zones	Bottom of interval described	Type modifier (17)	Colour (18–21)	Accessory mineral(s) (22–23)	Rock type (26–29)	Quartz QZ (30–31)	Sericite MU (36–37)	Clays CY (40–41)	Principal facies / Intensity (52–53)	Limonites (54–62)	Pyrite (63–64)	Molybdenite (67–68)	Chalcocite on gangue (69–70)
.019	TR	CAP	1.10	P	8	QZ	DCIT	PM	PM	PF	5M	I S S 5 9 1 0 L	V1		V1
.021	TR	CAP	1.25	P	8	QZ	DCIT	PF	PF	PF	5F	I L L 5 9 0 0 L			
.021	TR	CAP	1.40	P	8	QZ	DCIT	PA	PF	PF	5F	I L L K 7 2 1 F			
.059	.003	CAP	1.55	A	8		DCIT	PA	PA	PM	5M	I L L 5 8 1 1 F	D3		
.022	.005	CAP	1.70	S	7		BRXX	PH	PM		5M	I L 5 9 0 0 L	D3	D1	
.070	TR	CAP	1.85	P	7		DCIT	PA	PM	PF	6F	I L L 5 9 0 0 L	H3		

Note: SF OR 3F ??

PP?

CNT 180

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB.1971 HOLE NUMBER R-72

PAGE 3 OF 6

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS2

Cu (actual assay)	MoS2 (actual assay)	Contacts and Principal Zones	Bottom of Interval Described	Type Modifier	Value	Accessory Mineral(s)	Rock Type	QZ	KF	BI	MU	CY	TØ	Principal Facies	Intensity	Limonite Type	Cavities	Fracture Voids	Gangue Reactivity	% Jarosite	% Goethite	% Hematite	Limonite Intensity	Pyrite	Molybdenite	Chalcocite on Gangue
.257	.003	SUP	200	P	7		DCIT	6A	PL		PM	PF		5	F								N	<3		<2
.230	TR	SUP	215	S	6	QZ	BRXX	PA		PF	PA			7	F	I	L	L	5	9	0	0	L	>4		>2
.209	.005	SUP	230	S	6	QZ	BRXX	PA			PA			5	A	I	L	L	5	9	0	0	L	<4		<2
.282	.008	SUP	245	S	5	QZ	BRXX	PA			PA		PL	5	A								N	>4		>2
.250	.023	SUP	260	S	6	QZ	BRXX	PA			PA			5	A								N	#4		#2
.188	.008	SUP	275	S	6	QZ	BRXX	PA		PF	PA	PP		7	A								N	<4	D1	<2

Notes on form: ? ? (above KF column, first interval); Env. chips only?? (between 215 and 230); ?? (above CY column, last interval)

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB. 1971

HOLE NUMBER R-12

DIP AZIM.

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

(IF ROTARY OR PERCUSSION HOLE) COMMENTS Or Coarse, Heavies & Water Float

ESTIMATES & ASSAYS ELEMENTS OR MINERALS: Cu | MoS2

CONTACTS AND PRINCIPAL ZONES

BOTTOM OF INTERVAL DESCRIBED

FRAC DENSITIES (TO AXIS OF CORE) — Fractures/foot; Angle; % Fracs at Max. — or RDH/PDH CUTTINGS: Large fragment dimension in inches; Percent Cuttings; Max. Size of Cuttings; Cavings & Sloughing

HOST ROCK: TYPE MODIFIER (Lighter than normal; Darker than normal; Alteration colour of Intrusive Rock; Value 1 to 9 White to Black; Alteration colour of Fines); ACCESSORY MINERAL(S); TEXTURE; GRAIN SIZE; ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ; K-SPAR KF; BIOTITE BI; SERICITE MU; PYRITE PY; CLAYS CY; CHLORITE CL; EPIDOTE EP; CARBONATES CB; OTHER TØ; OTHER H#; Use Letter code at each interval required, or as headings in spaces above — MODE OF OCCURRENCE, MODE, AMOUNT, MODE, AMT., MODE, AMT

PRINCIPAL FACIES; INTENSITY

LIMONITES: TYPE (Magnesium, Fringe or Exotic); CAVITIES; FRACTURE VOIDS; MINERALS CONTROLLING COLOUR: GANGUE REACTIVITY, % JAROSITE, % GOETHITE, % HEMATITE, % Or Use Rock Colour Chart and Munsell System; LIMONITE INTENSITY

MINERALIZATION PERCENT BY (A) ☑ OR (B) ☐ SCALE: PYRITE, CHALCOPYRITE, MOLYBDENITE, CHALCOCITE ON GANGUE, CHALCOCITE, OTHER, OTHER — MODE, AMOUNT

TOTAL FRAC WIDTH

ALTERATION ZONE & HOST ROCK

COARSE / HEAVIES / WATER FLOAT / OTHER REMARKS & COMMENTS

VISUAL ESTIMATES / ACTUAL ASSAYS

Visual	Actual		Bottom of Interval	Host Rock	Alteration Assemblages	Principal Facies	Intensity	Limonites	Mineralization
		COARSE							?
.061	.008	SUP	290	S I QZ BRxx	6A PA	SA		N<4 D1 K1	
		C							
		H							
		W							TRACE CC
.053	.005	SUP	305	S S QZ B.R.x.x	6A PA	SA		N<4 K1	
		C							
		H		? → QZDR?					Trace CC
		SUP W	312	6	4APLT6APEPFPM	PL	7M	<4	Trace CC <1
.056	.004	SUP	322	6	4ARLT6APPPLPM	H>7M		N<4 K1	
		C							
		H			KF stable?				
		W							
.051	.003	HYP	337	7	4APLTPMPFPFPF	7M		N<4	
		C							
		H							
		W							GHOST FL phenos
.030	.003	HYP	352	P 7	DCLT4M	PM	5M	K3	
		C							
		H							
		W							GHOST FL-phenos.
.020	TR	HYP	367	P N	DCLT				

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB.1971

HOLE NUMBER R-12 PAGE 5 OF 6

TYPE OF HOLE: RDH ✓

MINERALIZATION PERCENT BY (A) ✓

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS2

Cu	MoS2	Contacts and Principal Zones	Bottom of Interval Described	Type Modifier	Value	Rock Type	Quartz	Sericite	Pyrite	Chlorite	Epidote	Principal Facies	Limonite / Mineralization	Other
.250	TR	SUP	3.8.2	P	1	DCIT							<3	
		REM	SOME DCIT CHIPS?											
.600	.010	SUP	3.9.7	P	9	3 APLT	6A	PA				4 ES A	N #3 D2 #1	CV
		REM	SOME APLT CHIPS? DCIT highly altered.											
.173	.003	SUP	4.0.9	P	9	DCIT	6A	PA				5A	N 74 D1	
.040	TR	HYP	4.2.4										74	
.030	TR	HYP	4.3.9	P	1	DCIT	PA	PF	PF P4	PF		3F	N >4 D1	
.019	TR	HYP	4.5.4	P	9	DCIT	PM	PF	PF P4	PF		3F	N <3	

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB. 1971

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

MINERALIZATION PERCENT BY (A) ☑ OR (B) ☐ SCALE

Cu (Actual assays)	MoS2 (Actual assays)	Contacts and principal zones	Bottom of interval described	Type modifier	Col. 19–20	Rock type (4-letter code)	Quartz (mode/amount)	Biotite	Sericite	Chlorite	Epidote	Other H#	Principal facies	Intensity	Pyrite	Chalcopyrite
.021	.003	HYP	46.9	P	7	DCIT	PF		PM	PL		MG	5	M	#3	D1
.038	.005	HYP	48.4	P	7	DCIT	PF		PA	PL	P4 (L)		5	A	#3	
.068	.031	HYP	49.9	P	7	DCIT	PF	PL	PF	P4		HE	7	4	K4	

END

REMARKS

(1) Rk types difficult to determine in this hole.

(2) Note discrep in Rk types in this log & those of M. Phillips & JMC.

(3) DCIT @ end of hole is problematical.

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R-15

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB.1971 PAGE 1 OF 5

DIP ___ AZIM ___ TYPE OF HOLE: DDH [ ] RDH [✓] PDH [ ]

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS2

MINERALIZATION PERCENT BY: (A) [✓] OR (B) [ ] SCALE

Cu	MoS2	Contacts and Principal Zones	Bottom of Interval Described	Type Modifier (17)	Colour / Value (19–21)	Accessory Mineral(s) (22–23)	Rock Type (26–29)	Quartz QZ (30–31)	Sericite MU (36–37)	Clays CY (40–41)	Other TØ (48–49)	Principal Facies / Intensity (52–53)	Limonites (54–62)	Mineralization Pyrite (63–64)	Other (73–74)
		ØVB	24												
.035	TR	CAP	38	P	8	BI	DCIT	PH	PM	PF	3M	SF	I L S S 9 0 0 L	DI	
.040	TR	CAP	53	P	8		DCIT	PM	PF	PF		SL	I L M S 9 0 0 L		GY
.045	TR	CAP	68	P	8		DCIT	PA	PF	PF	3M	SL	I L L S 9 0 0 L		GY
.035	TR	CAP	83	P	8	BI	DCIT	4M	4M	PF		SF	I S S S 9 0 0 L		
.030	.006	CAP	98	P	6	BI	DCIT	4M	4M	PF	3M	SF	I L S S 9 1 0 L		

(IF ROTARY OR PERCUSSION HOLE) COMMENTS: Coarse, Heavies & Water Float

CW
CG
CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R-15

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB. 1971

DIP AZIM TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS2

Comment: purple clay (arrow to Clays column, first interval)

Cu (actual assay)	MoS2 (actual assay)	Contacts and principal zones	Bottom of interval described	Type modifier (17)	Host rock colour (19–21)	Accessory mineral(s) (22–23)	Rock type (26–29)	Quartz QZ (30–31)	Sericite MU (36–37)	Clays CY (40–41)	Other TØ (48–49)	Principal facies / intensity (52–53)	Limonites (54–61)	Limonite intensity (62)	Pyrite (63–64)
.035	TR	CAP	1.14	P	8		DCIT	4M	PF	PH	PF	3A	I 5 S 5 9 1 9	L	D/
.035	TR	CAP	1.29	P	8	BI	DCIT	4F	PF	PH		3H	I 5 L 5 9 1 D	L	
.030	TR	CAP	1.44	P	9		DCIT	PL	PF	PH		3H	I 4 L 5 3 7 D	L	
.025	TR	CAP	1.59	P	9		(struck through)						1 S L 5 9 1 0	L	
.020	TR	CAP	1.74	P	9		DCIT	PA	PM	PF		5F	I 1 L 5 9 0 0	L	
.025	TR	CAP	1.88	P	9		DCIT	4F	4F	PM		3F	I 4 4 5 9 1 0	L	

CW EG CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R-15

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB. 1971 PAGE 3 OF 5

DIP AZIM

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS (C=Coarse, H=Heavies, B=Water float)

BOTTOM OF INTERVAL DESCRIBED

FRAC. DENSITIES (# TO AXIS OF CORE): Fractures/foot; Fractures Altered (% Fracs at 0-30°); Fractures/foot; Fractures Altered (% Fracs at 0-30°); Fractures/foot; Fractures Altered (% Fracs at 0-30°). RDH/PDH CUTTINGS: Large fragment diameter in mm; Percent Coarse; Net Weight (gm); Minutes per foot Sawing or Reaming

HOST ROCK: TYPE MODIFIER (Or Use Rock Colour Chart and Munsell System); ACCESSORY MINERAL(S); TEXTURE; GRAIN SIZE; ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ; K-SPAR KF; BIOTITE BI; SERICITE MU; PYRITE PY; CLAYS CY; CHLORITE CL; EPIDOTE EP; CARBONATES CB; OTHER TØ; OTHER H#. Mode of Occurrence, Amount. Use a letter code at each interval required, or as headings in spaces above. PRINCIPAL FACIES; INTENSITY

LIMONITES: TYPE (Indigenous, Fringe or Exotic); CAVITIES; FRACTURE VOIDS; GANGUE REACTIVITY; MINERALS CONTROLLING COLOUR (% JAROSITE, % GOETHITE, % HEMATITE, %; Use Rock Colour Chart and Munsell System); LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE: PYRITE; CHALCOPYRITE; MOLYBDENITE; CHALCOCITE ON GANGUE; CHALCOCITE; OTHER; OTHER. Mode, Amount

TOTAL FRAC # CTH

STRUCTURE AND/OR ALTERATION ZONE & HOST ROCK

ESTIMATES & ASSAYS ELEMENTS OR MINERALS: Cu | MoS2

QZ-MS ENV IN 3-ALT-PERVASIVE? PROB. W. CHIPS!

VISUAL ESTIMATES / ACTUAL ASSAYS	CONTACTS AND PRINCIPAL ZONES	BOTTOM OF INTERVAL DESCRIBED	HOST ROCK: TYPE MODIFIER / ACCESSORY MINERAL(S) / TEXTURE / GRAIN SIZE / ROCK TYPE	ALTERATION ASSEMBLAGES: QZ / K-SPAR KF / BIOTITE BI / SERICITE MU / PYRITE PY / CLAYS CY / CHLORITE CL / EPIDOTE EP / CARBONATES CB / OTHER TØ / OTHER H# / PRINCIPAL FACIES / INTENSITY	LIMONITES: TYPE / CAVITIES / FRACTURE VOIDS / GANGUE REACTIVITY / MINERALS CONTROLLING COLOUR / LIMONITE INTENSITY	MINERALIZATION PERCENT BY (A): PYRITE / CHALCOPYRITE / MOLYBDENITE / CHALCOCITE ON GANGUE / CHALCOCITE / OTHER / OTHER	TOTAL FRAC # CTH
.040 / TR	CAP	204	P 8 BI DC,IT 4F 4F PA EA 3M IL 5 5 5 0 F D 1			
.035 / TR	CAP	219	P 8 DC,IT 4F 4F PA EA 3M IL 4 5 2 1 7 M D 1			
.050 / .007	CAP	234	P 8 DC,IT <2			
.120 / .012	CAP	249	P 7 DC,IT 4F 4F PM PA 3F N <3 D 1 FM			
.140 / .003	SUP	264	P 7 DC,IT 4F 4F PM PE 3F N <3 <1			
.215 / .003	SUP	279	P 7 DC,IT EF EA PA VM 3M N <3 <2			

NØ CC in HEAVIES OR OBSERV.

MM?

Y.G. glue

Y.G. glue.

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: BRAMEDA RESOURCES LIMITED PROPERTY: CASINO LOGGED BY: CG DATE FEB. 1971

HOLE NUMBER R-15

DIP ___ AZIM. ___ TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

MINERALIZATION PERCENT BY (A) ☑ OR (B) ☐ SCALE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS_2

Cu (actual assay)	MoS_2 (actual assay)	Contacts and principal zones	Bottom of interval described	Type modifier (17)	Colour (19–21)	Accessory mineral(s) (22–23)	Rock type (26–29)	Quartz QZ (30–31)	K-spar KF (32–33)	Biotite BI (34–35)	Sericite MU (36–37)	Pyrite PY (38–39)	Clays CY (40–41)	Chlorite CL (42–43)	Epidote EP (44–45)	Carbonates CB (46–47)	Other TØ (48–49)	Other H# (50–51)	Principal facies / intensity (52–53)	Limonite intensity (62)	Pyrite (63–64)	Chalcopyrite (65–66)	Molybdenite (67–68)	Chalcocite on gangue (69–70)	Chalcocite (71–72)	Other (73–74)	Remarks
.335	.017	SUP	2.94	P	7		DCIT	4F			4F		PM				VM		3F	N	<3			<12			Y.G. glue
.580	.020	SUP	3.09	P	7		DCIT	4F			4F		PM				3H		3F	N	<3			<2			Y.G. glue
.740	.012	SUP	3.24	P	7		DCIT	4F			4F		PH				3H		3A	N	<3			<3			Y.G. glue. black cov
.165	.006	SUP	3.37	P	7		DCIT	PF			PF		PM				PM		3F	N	<3	>2		<1	V		
.235	.017	SUP	3.52	P	7		DCIT	PM			PF		PM				EF	H<3	3F	N	<3			<1		CN	Y.G. glue.
.185	.006	SUP	3.67	P	7	BI	DCIT	PM			PF		PM				EF		3F	N	<3			<1			

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: BRAMEDA RESOURCES LIMITED　PROPERTY: CASINO　LOGGED BY: CG　DATE FEB.1971

HOLE NUMBER R-15　

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE

ELEMENTS OR MINERALS: Cu, MoS_2

Actual Assays Cu	Actual Assays MoS_2	Contacts and Principal Zones	Bottom of Interval Described	Host Rock Type Modifier (17)	Host Rock Colour (18–21)	Rock Type (26–29)	Quartz QZ (30–31)	Sericite MU (36–37)	Clays CY (40–41)	Other TØ (48–49)	Principal Facies (52–53)	Pyrite (63–64)	Chalcocite on Gangue (69–70)	Other (73–74)
.190	.006	SUP	3.80	P	7 BI	DCIT	PF	PF	PM	VF	3F	<3	K1	
.185	.006	SUP	3.95	P	7 BI	DCIT	PF	PF	PM	PF	3F	<3	K1	CN

END

Remarks

① NØ CB.

② 3-ALT probably generally pervasive ∴ chips not well preserved but 3-ALT ENV CONC.

③ ∴ toss-up between 3 & 5 in descr.

④ Note abundant TØ.

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER: R 15A

COMPANY: Biomedia Resources Ltd — PROPERTY: Cosmo Project — LOGGED BY: CG — DATE: FEB 1971 — PAGE 1 OF 8

TYPE OF HOLE: DDH [ ] RDH [✓] PDH [ ]

MINERALIZATION PERCENT BY: (A) [✓] OR (B) [ ] SCALE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS_2

OTHER (Alteration): TØ, H¢

Cu	MoS_2	Contacts and Principal Zones	Bottom of Interval Described	Type Modifier	Colour	Accessory Mineral(s)	Rock Type	Quartz QZ	K-Spar KF	Sericite MU	Clays CY	Other TØ	Principal Facies	Limonite Type	Cavities	Fracture Voids	Gangue Reactivity	% Jarosite	% Goethite	% Hematite	Limonite Intensity	Pyrite	Other
		ØVB	23																				
.045	TR	CAP	38	P	8	BI	DCIT	4F		4F	PM		3F	I	L	L	S	9	0	0	F		
.045	TR.	CAP	52	P	8	BT	DCIT	4F		4F	PM	3M	3F	I	M	M	S	9	d	d	F		MK
.085	TR	CAP	67	P	7	BI	DCIT	4F		4F	PM	VA	3F	I	S	S	S	7	3	0	F	VZ	GY
.070	TR	CAP	81	P	7		DCIT	4F		4F	PM	VA	3F	I	L	L	S	9	0	d	L	V2	GY
.040	TR		96	P	8	BI	DCIT	4M	FL ?	4F	PM	3M	3F	I	L	M	S	9	0	6	F	D1	

Purple clay - MS mixtures!

DRILL HOLE GEOLOGIC LOG

CW&G — Chapman, Wood and Griswold Ltd.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R15A

Type of hole: DDH [ ] RDH [✓] PDH [ ]

Elements or minerals: Cu | MoS_2

Cu (actual assay)	MoS_2	Contacts and principal zones	Bottom of interval	Type modifier	Colour	Accessory mineral(s)	Rock type (4-letter code)	Quartz QZ	Biotite BI	Sericite MU	Pyrite PY	Clays CY	Other TO	Other HX	Principal facies	Limonites	Limonite intensity	Mineralization
.070	TR.	ØXD	110	P	7	BI	DCIT	6A		4A	PF		VM		SM	I S M 5 9 0 9	F	<2 D1 … D I T
.035	TR.	CAP	125	P	8	BI	DCIT	4A		4M	PA		PL		SF	I S S S 9 0 0	F	
.050	TR.	CAP	140	P	8	BI	DCIT	4A		4M	PA		VA	HE	SF	I L S 5 9 6 0	F	<1
.055	TR	CAP	154	P	8	BI	DCIT	4A		4M	PF		PF		SF	I S L 5 9 0 0	F	
.045	TR.	CAP	169	P	8	BI	DCIT	4A		4M	PF		PL		SF	I S K 4 6 0	F	D1
.055	TR	CAP	184	P	8	BI	DCIT	4F	PF	AF	PA			HE	3M	I L S 5 9 0 0	M	

Remarks (interval to 154): REM — LAMP-DIKE BI-RICH CHIPS

Annotations: TENORITE? (interval to 110); MK? (interval to 169); felted (interval to 184)

CW BG CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER P-15A

CW BG FORM 1 BY BT FOR EMR

DIP AZIM

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CORE

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS: On Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC. DENSITIES: Fractures/foot & % Fracs Altered or Min; Fractures/foot & % Fracs Altered or Min; Fractures/foot & % Fracs Altered or Min — at X TO AXIS OF CORE

or RDH/PDH CUTTINGS: Large fragment diameter in mm; Percent Coarse; Percent Most Common Rock Type; GRND CONDN: Minutes per foot Drilling & Swelling

HOST ROCK: TYPE MODIFIER (Lighter than normal, Darker than normal, Alphabetic colour of Host Rock; Value 1 to 9 I=Black, 9=White; Alphabetic colour of Fines); ACCESSORY MINERAL(S); TEXTURE; GRAIN SIZE; ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ; K-SPAR KF; BIOTITE BI; SERICITE MU; PYRITE PY; CLAYS CY; CHLORITE CL; EPIDOTE EP; CARBONATES CB; OTHER; OTHER — MODE OF OCCURRENCE; MODE; AMOUNT; Use 2-letter code at each interval required, or as headings in spaces above; PRINCIPAL FACIES; INTENSITY

LIMONITES: TYPE Ind., Goeth., Fringe, Lepidoc.; CAVITIES; FRACTURE VOIDS; GANGUE REACTIVITY; MINERALS CONTROLLING COLOUR % JAROSITE % GOETHITE % HEMATITE %; Or Use Rock Colour Chart and Munsell System; LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☐ OR (B) ☐ SCALE: PYRITE; CHALCOPYRITE; MOLYBDENITE; CHALCOCITE ON GANGUE; CHALCOCITE; OTHER; OTHER — MODE; AMOUNT

TOTAL FRAC. WIDTH per 10' or ____ in tenths of feet, or ____

STRUCTURE AND/OR ALTERATION

ZONE & HOST ROCK

ESTIMATES & ASSAYS ELEMENTS OR MINERALS: Cu. MoS_2

COARSE

HEAVIES

WATER FLOAT

OTHER REMARKS & COMMENTS

VISUAL ESTIMATES

ACTUAL ASSAYS

REM P. DCIT CHIPS ALSO in DCIT.

.035 TR CAP 5 199 S S BRXX 6A PM PA 1 5E 1L 1L 5 9 1 1 D 1F

C H W

REM F. BRXX ?? ENV-S ALT? ?

.030 TR CAP 10 212 P S DCIT 1A 4M PM PL 3F 1L 1L 5 8 1 1 1F D 2D 1

C H W

.020 TR CAP 15 227 P S DCIT 4A 4M PF 3H 5F 1L 1L 5 6 1 1F D 1

C H W

f. grained

.070 .006 CAP 20 242 P F DCIT 4F PM 4F PH MM? VA 3A 1L 1L 5 9 1 1 L 4Z

C H W

MM?

.155 .017 CAP 25 256 P F BT DCIT 1L PA PA PL 3A N K 3

C H W

MM?

V.G. glue.

.215 .012 SUP 30 270 P F BT DCIT 4F PA PH 3M 3A N K 3 K 1

DRILL HOLE GEOLOGIC LOG

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R15A

CW&G FORM 71-02

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

Cu	MoS_2	Contacts and Principal Zones	Bottom of Interval Described	Type Modifier	Colour	Accessory Mineral(s)	Rock Type	Quartz QZ	Biotite BI	Sericite MU	Clays CY	Chlorite CL	Other (TO)	Principal Facies / Intensity	Limonite Intensity	Pyrite	Chalcopyrite	Molybdenite	Chalcocite	Other	Remarks
.295	TR.	SUP	285	P	7	BI	DCIT	EL		4F	PA	PL	3M	3M	N	<3	D1	<1	D1	CN	Y.G. glue.
.850	TR	SUP	300	P	7	BI	DCIT	EL		4F	PH		3M	3A	N	<3	D1	<2	D1	CN	[illegible] Strong Green glue
.280	TR	SUP	315	P	6	BI	DCIT	EL		4F	PH		3M	3A	N	<3		<1		CN	green glue ?
.140	TR	SUP	330	P	6	BI	DCIT	EL		4F	PM		3M	3F	N	<3		<1			
.145	TR	SUP	345	P	6	BI	DCIT	PA	PF	PA	AA		PA	5M	N	<3	D1	<1			
.220	.007	SUP	360	P	6	BI	DCIT	EM		EM	PH	PL		3M	N	<3	D1	<1			

REM (between 330 and 345): CP W TO-RAD. CLUSTERS ← intimately associated (seen in R-15 but not noted).

CW &G CHAPMAN, WOOD AND GRISWOLD LTD. COMPANY:

DRILL HOLE GEOLOGIC LOG

PROPERTY: LOGGED BY: DATE:

HOLE NUMBER F-15A

PAGE 5 OF 8

CW&G FORM 71-02 BY BT FOR PH BLANCHET

DIP AZIM — TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ELEMENTS OR MINERALS: Cu | MoS_2

Cu	MoS_2	Contacts and principal zones / Comments	Bottom of interval described	Host rock (17–21)	Rock type (26–29)	Quartz QZ	Bio-tite BI / Seri-cite	Pyr-ite PY	Other (48–49)	Other (50–51)	Principal facies	Limonite intensity	Pyrite	Chalco-pyrite / Molyb-denite
.160	.017	SUP	375	P 6 BI	DCIT	4M	PF 4A	PH	3A		3M	N	<3	D1 K1
		REM	TØ W CP											
.155	.007	SUP	386	P 6 BI	DCIT	6M	PF AM	PH	3M		3M	N	<3	D1 K1
.115	.003	SUP	401	P 6 BI	DCIT	4F	PL 4A	PM	3M	VM (M)	3F	N	<3	D1 K1 D1
		REM	PY W TØ-WHØRLS											
.090	TR.	HYP	416	P 6 BI	DCIT	4F	PF 4A	PA	3H	PF (E)	3M	N	<3	D1
.120	.007	SUP	431	P 6 BI	DCIT	4F	PM 4F	PA		PF (F)	3M	N	<3	D1 K1
.110	.008	HYP	445	P 6 BI	DCIT	4F	PM 4F	AA	VA		3W	N	<3	D1

DRILL HOLE GEOLOGIC LOG

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

CW&G FORM

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

Cu (actual assay)	MoS_2 (actual assay)	Contacts and Principal Zones	Bottom of Interval Described	Type Modifier (17)	Value (20)	Accessory Mineral(s) (22-23)	Rock Type (26-29)	Quartz QZ	Biotite BI	Sericite MU	Clays CY	Other (48-49)	Principal Facies / Intensity (52-53)	Limonite Intensity (62)	Pyrite (63-64)	Chalcopyrite (65-66)	Molybdenite (67-68)	Chalcocite on Gangue (69-70)	Chalcocite (71-72)	Comments
.125	.005	SUP	460	P	6	BI	DCIT	PM	PM	PM	PM	PF	SF	N	<3	D1		<1		?
.150	.023	SUP	475	P	6	BI	DCIT	PM	PF	PM	PA	PA	SF	N	<3	D1	D1	<1		
.155	.015	SUP	489	P	6	BI	DCIT	4M		AM	PF	PA	SF	N	<3	D1		<1	V1	Stringer ATP
.135	.013	SUP	504	P	6	BI	DCIT	6M		4M	PV	BM	SM	1	<3	D1		<1		
.170	.011	SUP	519	P	6	BI	DCIT	4F	PM	4A	PM	VM	3F	1	<3	D1		<1		
.120	.015	SUP	535	P	6	BI	DCIT	6M	PF	4M	PF	3A	SF	N	<3	D1	V1	<1		dissem in QZ-V.

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER: P. 15A

COMPANY: PROPERTY: LOGGED BY: DATE:

PAGE 7 OF 8

CW&G FORM 71-02 BY B.T. FOR P.H. BLANCHET

DIP / AZIM / TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS_2

Cu	MoS_2	Contacts and Principal Zones	Bottom of Interval Described	Type Modifier	Colour Value	Accessory Mineral(s)	Rock Type	Quartz QZ	Biotite BI	Sericite MU	Clays CY	Chlorite CL	Carbonates CB	Other	Other	Principal Facies	Limonite Intensity	Pyrite	Chalcopyrite	Chalcocite on Gangue	Chalcocite	Other
.135	011	SUP	549	P	6	BI	DCIT	4M	PA	PF	PM			3M		3F	N	<3	D1	<1		
.105	.018	SUP	564	P	6	BI	DCIT	4M	PM	4F	PA	PL	PF	3H		3M	M	<3		<1		CV
.190	.027	SUP	579	P	6	BI	DCIT	4M	PM	4F	PA			VF		3M	N	<3	D1	<1		GY
.235	.022	SUP	593	P	6	BI	DCIT	6F	PM	AF	PF					3F	N	<3	<1	<2	V1	MC
.390	.013	SUP	608	P	6	BI	DCIT	4F		AF	PA		PM			3M	N	<3		<2		
.245	.021	SUP	622	P	6	BI	DCIT	4F	PA	AF	PA		PM	VL	HD	3M	N	<3	D1	<1		CV

very strong [illegible]

DRILL HOLE GEOLOGIC LOG

CW&G — CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: ______ PROPERTY: ______ LOGGED BY: ______ DATE: ______

HOLE NUMBER: ? 15A

PAGE 8 OF 8

C.W.&G. FORM 71-02

TYPE OF HOLE: DDH ☑ RDH ☐ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

Cu (actual assay)	MoS_2 (actual assay)	Contacts and principal zones	Bottom of interval described	Host rock (type modifier / value / colour)	Rock type	Quartz QZ	Biotite BI	Sericite MU	Clays CY	Carbonates CB	Other	Principal facies	Limonite intensity	Mineralization (cols 63–72)	Other
.220	.063	SUP	637	P 6 BI	DCIT	6M		4A	PM	PF (F)	VL	3E	N	≤3 D 1 D/ ≤1	M.C
.210	.036	SUP	651	P 6 BI	DCIT	1F	PAA 19		PA		3M	3M	N	≤3 D 2 D/ ≤1	QY
.185	.030	HYP	665	P 6 BI	DCIT	4A		4M	PAPL	PF (F)		5F	N	≤3 D 1	CV
.235	.040	SUP	680	P 6	DCIT	6A		4M	PAPL			5F	N	≤3 D 2 ≤1 (Strong)	
.190	.009	SUP	687	P 6 BI	DCIT	PM		PM	PL	PL		5F	N	≤3 D 1 ≤1 D 1	CV

END

PY-formed

Rem (1) WRT SUP VS HYP — CHIPS are usually freed CC but CON shows visible CC-paint.

CW BG CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER: R16

COMPANY: Bramalea Resources Limited   PROPERTY: Cosmic Project   LOGGED BY: CG   DATE: FEB. 1971   PAGE 1 OF 6

C.W.B.G. FORM 71-02

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐   DIP ___ AZIM ___

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS_2

Cu (actual assay)	MoS_2 (actual assay)	Contacts and principal zones	Bottom of interval described	Frac. densities / cuttings (11–16)	Type modifier (17)	Value (20)	Rock type (26–29)	Quartz QZ (30–31)	Biotite BI (34–35)	Sericite MU (36–37)	Clays CY (40–41)	Other (50–51)	Principal facies / intensity (52–53)	Limonites (54–61)	Limonite intensity (62)	Other (73–74)
		ØVB	23	D.												
		CNT	25				SGRNT	PF	PF	PM	PF	PM	HE SF	I S S 5 9 0 0	L	
.055	TR	CAP	37	D2C	A	7	DCIT	4M		AM	PF		SF	I S S 5 9 0 0	L	MK
.035	TR	CAP	52	D2C	S	7	BRXX	4A	PA	4F		HE	7M	I L S 5 8 2 0	F	
.055	TR	CAP	66	D2C	M	7	BRXX	4A	PA	4M	PA	HE	7M	I L M 5 3 1 6	M	
.050	TR	CAP	81	D2C	M	8	BRXX	6A	PM	4A			7M	I L S 5 4 6	M	
.055	TR	CAP	96	D2C	A	7	DCI	6A	PF	4A		MG	7L	~~– – – –~~ 6 4	F	

Notes written on log: "XENOLITH ?" (at 25); "Felted" (at 52); "foreign CRNT frags." (at 66).

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R16

CW&G FORM 7 REVISED BY BT FOR P+R RUN

DIP AZIM.

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CORE

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC. DENSITIES ∠ TO AXIS OF CORE: < 30° | 30-60° | > 60°

Fractures/foot | Altered or Min. | % Fracs or Min | Fractures/foot | Altered or Min | % Fracs or Min | Fractures/foot | Altered or Min | % Fracs or Min

or RDH/PDH CUTTINGS: Large fragment dia. in mm. | Percent Core Loss | Wet/Moist or Dry | GRND. COND'N: Minutes per foot | Caving & Swelling

HOST ROCK: TYPE MODIFIER (Lighter than normal, Darker than normal, Alphabetic colour of Host Rock, Value 1 to 9 (Black to White), Alphabetic colour of Fines; Or Use Rock Colour Chart and Munsell System) | ACCESSORY MINERAL(S) | TEXTURE | GRAIN SIZE | ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ | K-SPAR KF | BIOTITE BI | SERICITE MU | PYRITE PY | CLAYS CY | CHLORITE CL | EPIDOTE EP | CARBONATES CB | OTHER TO | OTHER AX — MODE OF OCCURRENCE / AMOUNT

Use 2-letter code at each interval required, or as headings, in spaces above: MODE / AMT. | MODE / AMT.

PRINCIPAL FACIES | INTENSITY

LIMONITES: TYPE Indigenous, Fringe or Exotic | CAVITIES | FRACTURE VOIDS | GANGUE REACTIVITY | MINERALS CONTROLLING COLOUR: % JAROSITE | % GOETHITE | % HEMATITE | % — Or Use Rock Colour Chart and Munsell System | LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☐ OR (B) ☐ SCALE: PYRITE | CHALCOPYRITE | MOLYBDENITE | CHALCOCITE ON GANGUE | CHALCOCITE | OTHER | OTHER — MODE / AMOUNT

TOTAL FRAC. WIDTH per 10 ft or ____ in tenths of feet, or ____

ESTIMATES & ASSAYS ELEMENTS OR MINERALS: Cu | MoS2

1 2 3 4 5 6 | 7 8 9 10 | 11 12 | 13 | 14 | 15 16 | 17 | 18 19 | 20 21 | 22 23 | 24 | 25 | 26 27 28 29 | 30 31 | 32 33 | 34 35 | 36 37 | 38 39 | 40 41 | 42 43 | 44 45 | 46 47 | 48 49 | 50 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 59 | 60 61 | 62 | 63 64 | 65 66 | 67 68 | 69 70 | 71 72 | 73 74 | 75 76 | 77 78 | 79 80

COARSE → HEAVIES → WATER FLOAT → OTHER REMARKS & COMMENTS

REM 1 DCIT CHIP

VISUAL ESTIMATES / ACTUAL ASSAYS

.045 TR | CAP 5 | 111 | D2 | S | P1 | BRXX | 6M | PFAM | PF | HC ZF | 1L1S4196 M

C H W

CNT 120

VISUAL / ACTUAL

.030 TR | CAP 10 | 126 | D2 | P | P1 | DCIT | BA | PFPA | PA | HC AF | 1+1+4214 M

C H W

VISUAL / ACTUAL

.050 TR | CAP 15 | 141 | D2 | P | P1 | DCIT | 6A | PMAF | PA | HC AF | 12414 M

C H W

VISUAL / ACTUAL

.050 TR | CAP 20 | 156 | D2 | P | P1 | DCIT | 6A | PLAA | PA | 7L | M

C H W

VISUAL / ACTUAL

.020 TR | CAP 25 | 170 | D2 | S | P1 | BRXX | 6A | PA | PF | SM | 1L1S4115 F D1

C H W

REM SOME DCIT CHIPS ??

VISUAL / ACTUAL

.035 TR | CAP 30 | 185 | D3C | S | P1 | BRXX | 6A | PF4M | PA | 7L | 1S5S6212 M

DRILL HOLE GEOLOGIC LOG

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: | PROPERTY: | LOGGED BY: | DATE: | HOLE NUMBER: R16 | PAGE 3 OF 6

DIP: | AZIM.: | TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS_2

Cu (actual)	MoS_2 (actual)	Contacts and Principal Zones	Bottom of Interval Described	Cuttings	Type Modifier	Colour	Rock Type	Quartz	K-Spar	Biotite	Sericite	Pyrite	Other	Principal Facies / Intensity	Limonites	Mineralization	Remarks
.040	TR	CAP	199	D2C	P	8	DCIT	4M		PM	3F	PA	HK	7M	ILL5901/L F	D1	REM APLT CHIP W SULPHIDES; ↓ W APLT.
.040	TR	CAP	214	D2C	P	8	DCIT	PA		PM	AA	AA	MG	7M	ILS5820	D1	QZ-MS-ENV IN 3-ALT-P.
.025	.009	CAP	229	D2C	P	9	DCIT	6A		PL	4M	PM		5F	ILS5900 F	V1	7-ALT VEE in P-3-ALT.
.030	.021	CAP	244	D3C	P	8	DCIT	6M	PF	PM	4M	PM		7M	ILL5901 L	<2	
.065	.069	CAP	259	D2C	P	8	DCIT	6M	PM	PM	4M	PM		7A	ILS5820 L	<3, D1	
.080	.060	CAP	275	D2	S	1	BRXX	6H		PM	4H			7M	N	A4	

CW&G CHAPMAN, WOOD AND GRISWOLD LTD. COMPANY:

DRILL HOLE GEOLOGIC LOG

PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R16

PAGE 4 OF 6

CW&G FORM

DIP: AZIM: TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK | ESTIMATES & ASSAYS (ELEMENTS OR MINERALS: Cu, MoS_2) | CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float | BOTTOM OF INTERVAL DESCRIBED | FRAC. DENSITIES | HOST ROCK | ALTERATION ASSEMBLAGES | LIMONITES | MINERALIZATION PERCENT BY: (A) OR (B) SCALE | TOTAL FRAC. WIDTH

COARSE / HEAVIES / WATER FLOAT / OTHER REMARKS & COMMENTS

very minor ↓

Cu (actual assay)	MoS_2 (actual assay)	Contacts and principal zones	Bottom of interval	Frac. densities	Type modifier	Colour	Rock type	Quartz	Alteration	Clays	Other (MG)	Principal facies	Limonite intensity	Pyrite	Chalcopyrite	Molybdenite	Chalcocite on gangue	Other
.075	.036	CAP	289	D3C	S	7	BRXX	6A	PFAM			7A	N	#4	D	D	D	
		CNT	295															
.080	.048	CAP	304	D3C	P	7	DCIT	6M	PF4M	PF		7A	N	#4		D		
.065	020	CAP	318	D2C	P	7	DCIT	4M	PF4M	P4		7A	N	#4			V1	C1
.190	.009	SUP	333	D2C	P	7	DCIT	6M	PF4M	P4	MG	7A	N	#4			V2	
.275	.021	SUP	349	D2C	P	6	(struck through)											
.150	.012	SUP	363	D3C	P	[illegible]	DCIT	4M	PF4M	PF	MG	7F	N	K4			K2	

Powder-Blue alt.

Powder-Blue alt.

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R16

COMPANY:

PROPERTY:

LOGGED BY:

DATE:

PAGE 5 OF 6

CW&G FORM

DIP ___ AZIM. ___

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS_2

Cu	MoS_2	Contacts and principal zones	Bottom of interval described	Frac. densities / RDH cuttings	Type modifier	Host rock colour	Rock type	Quartz QZ	Biotite BI	Sericite MU	Clays CY	Other	Principal facies / Intensity	Limonite intensity	Pyrite	Chalcopyrite	Chalcocite on gangue
.130	.029	SUP	377	D3	P	6	DGIT										
.140	.012	SUP	392	D5	P	6		PM	PM	PM	PL		7M	N	<4		<2
.125	.012	SUP	407	D3	P	6		4M	PM	4M	PL		7M	N	<4		<2
.145	.012	SUP	422	D3	P	6		[illegible]M	PM	4M	PL		7M	N	<4		<2
.075	.016	SUP	436	W3	P	7		6M	PM	4F	PF		7M	N	<4		<1
.175	.030	SUP	451	W3	P	7		6A	PM	4M	PF	VL	7M	N	<4	D1	<2

Supergene clay?

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

DIP ___ AZIM. ___ TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

Cu	MoS_2	Contacts and Principal Zones	Bottom of Interval Described	Frac. Densities / Cuttings	Host Rock: Type Modifier	Host Rock: Colour	Rock Type	Quartz QZ	K-spar KF	Biotite BI	Clays CY	Other (TO / HX)	Principal Facies / Intensity	Limonite Intensity	Pyrite	Molybdenite	Chalcocite on Gangue / Chalcocite
.100	.030	SUP	466	W3	P	7	DCIT	6M	PF	4M	P4	VMH<	7F	N	<4		<2
.185	.028	SUP	481	W3	P	7		6M	PF	4M	P4	MG	7F	N	<4		<2 V1
.190	.028	SUP	495	W4	P	7		4M	PM	4M		MG	7M	N			
		REM	ATP POSSIBLE S. BRXX														
.195	.010	SUP	500	W3	P	8		4A	PF	4M			7F	N		D1	
		END															

REMARKS
1. NO CB OBSERVED.
2. USUAL PROBLEM OF ENV VS S BRXX.
3. CLAY SUPERGE BECAUSE OF QZ CONTENT .8 ignored in facies designation?
4. Much of the BI & MG may be primary?

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD. (CW&G)

COMPANY: Brameda Resources Limited — PROPERTY: Casino Project — LOGGED BY: CG — DATE: Feb 1971

HOLE NUMBER: R 17 — PAGE 1 OF 6 — CW&G FORM

DIP ____ AZIM. ____ TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS_2

Actual assays Cu	Actual assays MoS_2	Contacts and principal zones	Bottom of interval described	Frac. densities / cuttings (cols 15–16)	Type modifier (17)	Host rock colour value (20)	Rock type (26–29)	Quartz QZ (30–31)	Sericite MU (36–37)	Other TØ (48–49)	Principal facies (52–53)	Limonites type / cavities / fracture voids (54–56)	Minerals controlling colour (57–61)	Limonite intensity (62)
		ØVB	22	D										
.005	.004	CAP	37	D2	K	9	BRR7	PH	PA	PL	SA	IL	5900	F
TR	TR	CAP	52	D2	K	9		PH	PA		SA	IS	5208	M
TR.	TR	CAP	66	D2C	K	9		PH	PA		SA	ILS	5208	M
TR	TR	CAP	81	D2C	K	9		PH	PA		SA	IL	5820	F
TR	TR	CAP	96	D2	K	9		PH	PM		SM	ILS	5019	M

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE: -

HOLE NUMBER R17

PAGE 2 OF 6

CW&G FORM

DIP ____ AZIM. ____ TYPE OF HOLE: DDH ☐ RDH ☐ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

Cu	MoS_2	Contacts and principal zones	Bottom of interval described (7-10)	Frac. densities (13-14)	Type modifier (17)	Value (20)	Rock type (26-29)	Quartz QZ (30-31)	Sericite MU (36-37)	Chlorite CL (42-43)	Carbonates CB (46-47)	Other TO (48-49)	Principal facies (52-53)	Limonites (54-62)	Pyrite (63-64)	Chalcocite on gangue (69-70)
TR	TR	CAP	111	D2	R	9	BRR7	PH	PA				SA	I L S 5 1 2 7 F		
		REM: V. SMALL TO FRG IN BR ?														
TR	TR	CAP	126	DZ	R	9		PH	PA				SA	I L L 5 9 0 0 L	D1	
TR	TR	CAP	141	D2	R	8		PH	PA				SA	I L L 5 9 0 0 L	D3	
.005	TR	CAP	156	D2	R	8		PH	PA			PL	SA	1	D5	
.050	TR	SUP	171	D2	R	8		PH	PA		PL		SA	11	D7	D1
.035	TR	SUP	186	D3	R	8		PH	PA	PL		3F	SA	11	D7	D1

DRILL HOLE GEOLOGIC LOG

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R17

PAGE 3 OF 6

CW&G FORM

DIP AZIM. TYPE OF HOLE: DDH [ ] RDH [✓] PDH [ ]

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

Column headings: CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float (1–6) · BOTTOM OF INTERVAL DESCRIBED (7–10) · FRAC DENSITIES ∡ TO AXIS OF CORE <30° 30–60° >60° (Fractures/foot, % Fracs Altered or Min.) or RDH/PDH CUTTINGS (Large fragment diameter in mm, Percent Coarse, GRND COND'N Wet/Moist/Dry, Minutes per foot, Caving & Swelling) (11–16) · HOST ROCK: Type Modifier (17), Lighter than normal/Darker than normal/Alphabetic colour of Host Rock (18), Value 1 to 9 1=Black 9=White (19–20), Alphabetic colour of Fines (21) — Or Use Rock Colour Chart and Munsell System; Accessory Mineral(s) (22–23), Texture (24), Grain Size (25), Rock Type Use 4-Letter Code (26–29) · ALTERATION ASSEMBLAGES (Mode of occurrence / Amount): Quartz QZ (30–31), K-Spar KF (32–33), Biotite BI (34–35), Sericite MU (36–37), Pyrite PY (38–39), Clays CY (40–41), Chlorite CL (42–43), Epidote EP (44–45), Carbonates CB (46–47), Other (48–49), Other (50–51) — Use 2-letter code at each interval required, or as headings in spaces above; Principal Facies (52), Intensity (53) · LIMONITES: Type Indigenous, Fringe or Exotic (54), Cavities (55), Fracture Voids (56), Gangue Reactivity (57), Minerals Controlling Colour % Jarosite (58), % Goethite (59), % Hematite (60), % (61) — Or Use Rock Colour Chart and Munsell System; Limonite Intensity (62) · MINERALIZATION PERCENT BY (A) [ ] OR (B) [ ] SCALE (Mode / Amount): Pyrite (63–64), Chalcopyrite (65–66), Molybdenite (67–68), Chalcocite on Gangue (69–70), Chalcocite (71–72), Other (73–74), Other (75–76) · TOTAL FRAC WIDTH (77–78)

COARSE / HEAVIES / WATER FLOAT / OTHER REMARKS & COMMENTS

? ?

Cu	MoS_2	Contacts / Zones	Bottom of Interval	Cols 11–16	Type Modifier (17)	Colour (19–20)	Rock Type (26–29)	Quartz QZ (30–31)	Sericite MU (36–37)	Chlorite CL (42–43)	Epidote EP (44–45)	Carbonates CB (46–47)	Principal Facies / Intensity (52–53)	Limonite Intensity (62)	Pyrite (63–64)	Cols 69–70
.015	TR	SUP	201	D.4	R	7	BRR7	PH	PA	PL	PL	PL	SA	N	D7	D1
.010	TR	SUP	215	D.3	R	7		PH	PA	PL		PA	SA	N	D7	D1
.020	TR	SUP	230	D.3	R	7		PH	PA			PA	SA	N	D7	D1
.020	TR	SUP	244	D.3	R	7		PH	PA	PL		PA	SA	N	D7	D1
.020	.004	SUP	259	D.3.C	R	7		PH	PA	PL		PF	SA	N	D7	D1
.030	.004	SUP	274	D.1	R	7		3H	PA			PL	SA	N	D7	D1

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R17

TYPE OF HOLE: RDH ✓

ELEMENTS OR MINERALS: Cu, MoS_2

Cu (actual assay)	MoS_2 (actual assay)	Contacts and Principal Zones	Bottom of Interval Described	Frac. Densities / Cuttings	Type Modifier	Colour	Rock Type	Quartz QZ	Sericite MU	Carbonates CB	Principal Facies	Limonite Intensity	Pyrite	Chalcocite on gangue
.020	.004	SUP	289	D2	R	71	BRRZ	PH	PA	PL	SA	N	D7	D1
.010	.004	HYP	304	D3	R	7		PH	PA	PL	SA	N	D7	
.015	.004	HYP	319	D3	R	71		PH	PA		SA	N	D7	
.010	.004	HYP	333	D3	R	81		PA	PA		SA	N	D7	
.020	TR	HYP	348	D2	R	71		PH	PA		SA	N	D7	
.010	TR	HYP	362	D2	R	71		PH	PA		SA	N	D7	

REM: TO FRAGS IN CHIPS (between 319 and 333)

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R17

PAGE 5 OF 6

DIP AZIM. TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu. | MoS2

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS: On Coarse, Heavies & Water float

Column groups: BOTTOM OF INTERVAL DESCRIBED · FRAC. DENSITIES (∠ TO AXIS OF CORE < 30°, 30-60°, > 60°; Fractures/foot, Altered % Fracs or Min; or RDH/PDH CUTTINGS) · HOST ROCK (Type Modifier, Value/Colour, Accessory Mineral(s), Texture, Grain Size, Rock Type – use 4-letter code) · ALTERATION ASSEMBLAGES (Quartz QZ, K-Spar KF, Biotite BI, Sericite MU, Pyrite PY, Clays CY, Chlorite CL, Epidote EP, Carbonates CB, Other, Other; Mode / Amount) · PRINCIPAL FACIES · INTENSITY · LIMONITES (Type, Cavities, Fracture Voids, Gangue Reactivity, Minerals Controlling Colour: % Jarosite, % Goethite, % Hematite, %; Limonite Intensity) · MINERALIZATION, PERCENT BY: (A) ☐ OR (B) ☐ SCALE (Pyrite, Chalcopyrite, Molybdenite, Chalcocite on Gangue, Chalcocite, Other, Other; Mode / Amount) · TOTAL FRAC WIDTH

Cu (actual assay)	MoS2 (actual assay)	Contacts / Zones	Bottom of Interval	Frac. Densities	Type Modifier	Value	Rock Type	Quartz (QZ)	Sericite (MU)	Carbonates (CB)	Principal Facies	Limonite Intensity	Pyrite
.010	TR	HYP	376	D2	R	7	BRR7	PH	PA		SA	N	D7
.05	TR	HYP	391	D2	R	7	BRR7	PH	PA	PF	SA	N	D7
.005	TR	HYP	405	D2	R	7	BRR7	PH	PA	PF	SA	N	D7
		REM	TØ FRAGS IN BRXX										
.005	TR	HYP	420	D2	R	7	—	PH	PA	NL	SA	N	D7
.015	TR	HYP	433	D3	R	7	—	PH	PA	PL	SA	N	D7
.015	TR	HYP	448	D1	R	8	—	PH	PA	PF	SA	N	D7

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD. (CW&G)

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R 17

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu., MoS_2

Actual Assays Cu	Actual Assays MoS_2	Contacts and Principal Zones	Bottom of Interval Described	Frac Densities	Host Rock Type Modifier	Host Rock Colour	Rock Type	Quartz (QZ)	Sericite (MU)	Carbonates (CB)	Principal Facies	Limonite Intensity	Pyrite
.055	TR	HYP	462	D2	R	6	BRR7	PH	PA	PL	5A	N	D7
.035	TR	HYP	477	D2	R	8		PH	PA	PM (ANKERITIC)	5A	N	D7
.005	TR	HYP	492	D2	R	8		PH	PA	PA	5A	N	D7
.005	TR	HYP	500	D2	R	8		PH	PA	PL	5A	N	D7

END

REMARKS: (1) NØ HX

(2) (R)-BRRX — Fragments - Free of matrix - rock frags highly altered - often quartz.

- Matrix - Altered (R)YLT not typical sag[illegible] BRXX but would likely be a micro breccia.
- This is definitely breccia.

MAY MAP as microbreccia?

(3) A supergene zone exists & HE @ top in LI suggests a leached [illegible]

(4) [illegible]

(5) Section remarkably consistent

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: Brameda Resources Limited PROPERTY: Casino Project LOGGED BY: C.G. DATE: FEB. 1971

HOLE NUMBER R18 PAGE 1 OF 8

C.W.B.G. FORM 71

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS2

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE

OTHER (alteration): Tφ, H#

Assays Cu	Assays MoS2	Contacts and Principal Zones	Bottom of Interval Described	Frac. densities	Host rock value/colour	Grain size	Rock type	Quartz QZ	Biotite BI	Sericite MU	Clays CY	Other Tφ	Principal facies / intensity	Limonites	Limonite intensity	Remarks
		ØVB	23	D												
.040	.005	CAP	38	D3	9 1	5	GRNT	6M		4M	?M	3M	6M	I L S 5 9 0 0	M	BI - one chip
.045	TR	CAP	53	D3C	8	5	GRNT	6M		4M	PA		6M	I S S 5 9 0 0	M	BI - one chip W MM?
.045	.002	CAP	68	D4C	8	5	GRNT	6M		4M	PA		6M		M	
.045	.004	CAP	82	D6	9 1	5	GRNT	6M	EF	4M	PA		6M		M	TL?
.045	.005	CAP	98	D4	9 1	5	GRNT	6M		4M	PA		6M		M	

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R18

COMPANY: PROPERTY: LOGGED BY: DATE:

CW&G FORM

DIP — AZIM. — TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

Column groups: STRUCTURE AND/OR ALTERATION; ZONE & HOST ROCK; ESTIMATES & ASSAYS (ELEMENTS OR MINERALS: Cu, MoS_2); CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float (1–6); BOTTOM OF INTERVAL DESCRIBED (7–10); FRAC DENSITIES ∠ TO AXIS OF CORE <30°, 30-60°, >60° (Fractures/foot, Altered % Fracs or Min.) or RDH/PDH CUTTINGS (Large fragment diameter in mm, Percent Coarse, GRND COND'N Wet/Moist or Dry, Minutes per foot, Caving & Swelling) (11–16); HOST ROCK: TYPE MODIFIER, Lighter than normal / Darker than normal, Alphabetic colour of Host Rock, Value 1 to 9 (1=Black, 9=White), Alphabetic colour of Fines (or Use Rock Colour Chart and Munsell System), ACCESSORY MINERAL(S), TEXTURE, GRAIN SIZE, ROCK TYPE USE 4-LETTER CODE (17–29); ALTERATION ASSEMBLAGES: QUARTZ QZ, K-SPAR KF, BIOTITE BI, SERICITE MU, PYRITE PY, CLAYS CY, CHLORITE CL, EPIDOTE EP, CARBONATES CB, OTHER, OTHER (Use 2-letter code at each interval required, or as headings in spaces above), MODE OF OCCURRENCE / AMOUNT, PRINCIPAL FACIES, INTENSITY (30–53); LIMONITES: TYPE (Indigenous, Fringe or Exotic), CAVITIES, FRACTURE VOIDS, GANGUE REACTIVITY, MINERALS CONTROLLING COLOUR (% JAROSITE, % GOETHITE, % HEMATITE, %) (Or Use Rock Colour Chart and Munsell System), LIMONITE INTENSITY (54–62); MINERALIZATION PERCENT BY: (A) ☐ OR (B) ☐ SCALE: PYRITE, CHALCOPYRITE, MOLYBDENITE, CHALCOCITE ON GANGUE, CHALCOCITE (MODE/AMOUNT), OTHER, OTHER (63–76); TOTAL FRAC WIDTH per ... or ... in tenths of feet (77–79).

Cu (actual assay)	MoS_2 (actual assay)	Contacts and principal zones	Bottom of interval	Frac densities	Host rock (17–29)	Alteration assemblages (30–53)	Limonites (54–62)	Mineralization (63–76)	Comments
.065	.002	CAP	1.13	D 5	8 5 G R N T	6M EF 4M 4A VL HE 7L (6M?)	IS S 5 9 1 10 F		
.055	.004	CAP	1.28	D 3	8 5 G R N T	6M 4M PA (MM?) PF HE 6M	~~—~~ 9 1 10 M		
.055	.018	CAP	1.43	D 3	9 5 G R N T	6M FL 4M PA 6M	IL S 5 9 10 1 F		
.045	.011	CAP	1.58	D 2	9 5 G R N T	6M 4M PA PL 6M	IL S 5 9 10 1 F		
		CNT	160						sulphate taste.
.110	.025	ØXD	1.73	D 6	5 8 QZ B R X X	PA PM PL 5M	IL S 5 9 10 1 M		Strong sulphate taste. — CRNT frags?
.170	.030	ØXD	1.89	D 3 C	M 7 B R X X	PA PF PM MG 7F	F	D 1 D 1	

DRILL HOLE GEOLOGIC LOG

CW&G — Chapman, Wood and Griswold Ltd.

COMPANY: | PROPERTY: | LOGGED BY: | DATE:

HOLE NUMBER R18

CW&G FORM

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ELEMENTS OR MINERALS: Cu. | MoS_2

Cu (actual assay)	MoS_2 (actual assay)	Contacts and principal zones	Bottom of interval described	RDH/PDH cuttings	Host rock colour	Rock type	Quartz QZ	Biotite BI	Sericite MU	Pyrite PY	Other IC	Principal facies	Limonites (cols 54–62)	Pyrite	Chalcopyrite	Other	Remarks
.150	.019	ØXD	203	D3C	7	5GRNT	6F	EL	4A	PA (MM?)		6A	ILL59010 F	D1	D1	CNTE	Strong sulphate taste
.145	.007	ØXD	218	D3C	8	5GRNT	6A	PF	4A	PM	VA	7F (?)	ILS57310 M			CN	strong sulphate taste
.185	.009	ØXD	233	D4	8	5GRNT	6A		4M	PA		5M	ILS58120 M	D1	V1	CY	strong sulphate taste / SUP?
.080	.012	CAP	247	D3	8	5GRNT	6A	PM (felted)	4M	PA		7F	ILL59110 F				
.050	.018	CAP	261	D4	8	5GRNT	6A	3A	4M	PA		7M	ILL59000 F	V1			
.070	.040	CAP	275	D4	9	5GRNT	6A	EL	4M		I/L	5M	ILS58120 M	V2	<1		

CW BG CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R 18

CW B G FORM 7 BY B.T. FOR PH.D. '69

DIP AZIM. TYPE OF HOLE: DDH ☑ RDH ☐ PDH ☐

CORE

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS: Or Coarse, heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC. DENSITIES (< TO AXIS OF CORE): < 30° | 30-60° | > 60° — Fractures/foot; %Fracs Altered or Min. — or RDH/PDH CUTTINGS: Large fragment diameter in mm; Percent Coarse; GRND COND'N: Rate of Boost (Minutes per foot); Caving & Swelling %Fracs Altered or Min.

HOST ROCK: TYPE MODIFIER (Lighter than normal, Darker than normal, Alphabetic colour of Host Rock, Value 1 to 9 1=Black, 9=White, Alphabetic colour of Fines; Or Use Rock Colour Chart and Munsell System); ACCESSORY MINERAL(S); TEXTURE; GRAIN SIZE; ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ; K-SPAR KF; BIOTITE BI; SERICITE MU; PYRITE PY; CLAYS CY; CHLORITE CL; EPIDOTE EP; CARBONATES CB; OTHER; OTHER (T¢) — MODE OF OCCURRENCE; MODE; AMOUNT. Use 2-letter code at each interval required, or as headings in spaces above. PRINCIPAL FACIES; INTENSITY

LIMONITES: TYPE (Indigenous, Fringe or Exotic); CAVITIES; FRACTURE VOIDS; GANGUE REACTIVITY; MINERALS CONTROLLING COLOUR (% JAROSITE, % GOETHITE, % HEMATITE, %); Or Use Rock Colour Chart and Munsell System; LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☐ OR (B) ☐ SCALE: PYRITE; CHALCOPYRITE; MOLYBDENITE; CHALCOCITE ON GANGUE; CHALCOCITE; OTHER; OTHER — MODE; AMOUNT

TOTAL FRAC WIDTH per 5ft. or ... in tenths of feet, or ...

COARSE | HEAVIES | WATER FLOAT | OTHER REMARKS & COMMENTS

VISUAL ESTIMATES / ACTUAL ASSAYS

ACTUAL .295 | .055 — SUP — 2.89 — D3 — 1 — SGRNT — 6A — IPFHM — PP — 6M — LS — L#2 — K2 — C V

C: KN — E3 Q2 DR 3A PL PF PH 3M PL — N HK 4A M 6 307 L→3 D1 →3 D1 HE MG

H:

W: KF - Primary; Fine PY with CC coating; GY needles forming on cuttings — Sooty?

HE - cavities - alt. MG, Facies 7?

VISUAL .2 / ACTUAL .265 | .032 — SUP — 3.04 — D2 — 1 — SGRNT — 6A — HM — SM — I#4 — K2 D1 G M

C: KN — E3 Q2 DR 3A 3F PF 3M 3H PL — N GY 4A ML S3 9 — L→3 D2 D1 →1

H:

W: KF - one veinlet - sec? GY on fractures and forming needles on cuttings

VISUAL .2 / ACTUAL .145 | .018 — 3.18 — D3 — 6 — SGRNT — 6A — HM — PF — SM — N#4 — D1 K2 — G Y

C:

H:

W: KF - partially attacked in some chips - SL-F as above comments

VISUAL .2 / ACTUAL .175 | .019 — 3.31 — D4 — 6 — SGRNT — 6A — HM — PL — HM IL — 8 2 0 — L#4 D1 — K2 D1

C: KN — E3 Q2 DR 3H PH PA PM PM — N GY 5A — L D3 D2 ↓

H:

W: CP - very fine. KF content higher than normal KGRDR; BI = PH. Facies 7? PF-L

VISUAL .15 / ACTUAL .220 | .023 — 3.45 — D4 — 1 — SGRNT — 6A — HM — PL — HM TS — 9 1 D1 — L#4 D1 V1 K2 — G Y

C: KN — E3 Q2 DR PH PL PF PH PL — N GY L ML S3 9 — L D2 — D2

H: CNT — 3.50

W: Chips KF APLT - slightly silicitized

VISUAL .1 / ACTUAL .285 | .018 — 3.60 — D3C — 1 — 3APLT — PL — MF — HF — N#4 — K2

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER: R18
PAGE 5 OF 8

COMPANY: PROPERTY: LOGGED BY: DATE:

CW&G FORM

DIP / AZIM. / TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu. | MoS2

Columns: STRUCTURE AND/OR ALTERATION; ZONE & HOST ROCK; CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float (1–6); BOTTOM OF INTERVAL DESCRIBED (7–10); FRAC DENSITIES ∠ TO AXIS OF CORE <30° 30–60° >60° (Fractures/foot, Altered % Fracs or Min) or RDH/PDH CUTTINGS (Large fragment diameter in mm, Percent Coarse, Wet/Moist or Dry, Minutes per foot, Caving & Swelling, GRND COND'N) (11–16); HOST ROCK: TYPE MODIFIER (17), Lighter than normal/Darker than normal, Alphabetic colour of Host Rock, Value 1 to 9 (1 = Black, 9 = White), Alphabetic colour of Fines, or Use Rock Colour Chart and Munsell System (18–21), ACCESSORY MINERAL(S) (22–23), TEXTURE (24), GRAIN SIZE (25), ROCK TYPE USE 4-LETTER CODE (26–29); ALTERATION ASSEMBLAGES: QUARTZ QZ, K-SPAR KF, BIOTITE BI, SERICITE MU, PYRITE PY, CLAYS CY, CHLORITE CL, EPIDOTE EP, CARBONATES CB (MODE OF OCCURRENCE / AMOUNT) (30–47), OTHER TO, OTHER HY (Use 2-letter code at each interval required, or as headings in spaces above) (48–51), PRINCIPAL FACIES (52), INTENSITY (53); LIMONITES: TYPE (Indigenous, Fringe or Exotic) (54), CAVITIES (55), FRACTURE VOIDS (56), GANGUE REACTIVITY (57), MINERALS CONTROLLING COLOUR % JAROSITE, % GOETHITE, % HEMATITE, % (Or Use Rock Colour Chart and Munsell System) (58–61), LIMONITE INTENSITY (62); MINERALIZATION PERCENT BY: (A) ☐ OR (B) ☐ SCALE: PYRITE, CHALCOPYRITE, MOLYBDENITE, CHALCOCITE ON GANGUE, CHALCOCITE (MODE / AMOUNT) (63–72), OTHER, OTHER (73–76), TOTAL FRAC WIDTH per ___ or ___ in tenths of feet, or ___ (77–78), 79–80.

Visual Cu	Visual MoS2	Actual Cu	Actual MoS2	Contacts / Comments	Bottom (7–10)	Frac (11–16)	Type (17)	Colour/Value (18–21)	Accessory (22–23)	Rock Type (26–29)	QZ (30–31)	SE/MU (36–37)	PY (38–39)	Other / Facies / Intensity (48–53)	Limonites (54–62)	Pyrite (63–64)	Chalcocite on gangue (69–70)	Other (73–74)
.1	.01	.185	.012	SUP	375	D3C	P	7	BI	DCIT	PL	PF	PL	5F	N	>3	D1	
.2		.215	.016		390	D3C	P	7	BI	DCIT	6F	4A	PF	5L	N	<4	<1	
.15		.205	.005		404	D3C	P	8	BI	DCIT	61	4M	PF	5A	I L S K 9 0 1 L	<4 D1	<1	
.1		.165	.009		418	D3C	P	7		DCIT	6H	4A	PF	5M	N	<4	<1	GY
.15		.100	.004		433	D3C	P	6		DCIT	6H	4A	PF	5M	I S 5 2 7 1 L	<4	<1	
.05		.200	.016		448	D2C	P	6	BI	DCIT	PL	PL	PF	MG 3F	N	<4	<1	

Coarse/Heavies/Water float and remarks lines (in order):

- C (crossed out): K — E3 QZ DRPF PX PH PL PF — MG 5L — D1 ϕ
- Remarks: GRDR - KF - H? sec? ~~Fine shredded & book BI Late QZ Pheno.~~ KF PDCIT 7H
- 375 — C (crossed out): P7 — QZ 8 DCIT — PH 3M — 4H — S 3 9 0 1 L D2 D1 — D1 D1
- 375 — W: PY - very fine
- 390 — C (crossed out): P7 — 8 DCIT — PH 3A — 5L MLS 3 9 0 1 — D3 D1 — D1
- 390 — W: Chip - BI KF - slight MS GRDR DCIT - BI absent?
- 404 — C (crossed out): P? — QZ 8 DCIT VL — 3A 3M — 4A — >3 D1 — D1
- 404 — W: Occ BI book → MS ; Chip GRDR ? BRXX ?
- 418 — C (crossed out): K7 — E3 GRDR 3H — PH 3A — 5H — B 6 0 A — >2 D1 — >2 D1
- 418 — W: B - boxwork LI ex PY 40% PDCIT
- MM ←
- 433 — C (crossed out): P7 — QZ 8 DCIT — PH PL — >4 — D1
- 433 — W: DCIT - FRX
- ↓ primary.

CW BG · CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R18

CW B G FORM 7 BY B T FOR P-H 8.5

DIP ____ AZIM. ____ TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CORE

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS2

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS: On Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC. DENSITIES TO AXIS OF CORE: < 30° | 30-60° | > 60° — Fractures/foot | Altered % Fracs or Min — or RDH/PDH CUTTINGS: Large fragment dia. in mm | Percent Coarse | Wet/Moist or Dry | GRND CONDTN: Minutes per foot | Caving & Swelling

HOST ROCK: TYPE MODIFIER (Lighter than normal, Darker than normal, Isotropic colour of Host Rock; Value 1 to 9 (1=Black, 9=White; Alphabetic colour or Fines; Or Use Rock Colour Chart and Munsell System) | ACCESSORY MINERAL(S) | TEXTURE | GRAIN SIZE | ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ — MODE OF OCCURRENCE, AMOUNT | K-SPAR KF | BIOTITE BI | SERICITE MU | PYRITE PY | CLAYS CY | CHLORITE CL | EPIDOTE EP | CARBONATES CB — MODE, AMOUNT | OTHER (TO, HY) — Use 2-letter code at each interval required, or as headings in spaces above — MODE, AMT., MODE, AMT. | PRINCIPAL FACIES | INTENSITY

LIMONITES: TYPE (Indigenous, Fringe or Exotic) | CAVITIES | FRACTURE VOIDS | GANGUE REACTIVITY | MINERALS CONTROLLING COLOUR: % JAROSITE, % GOETHITE, % HEMATITE, % (Or Use Rock Colour Chart and Munsell System) | LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☐ OR (B) ☐ SCALE: PYRITE | CHALCOPYRITE | MOLYBDENITE | CHALCOCITE ON GANGUE | CHALCOCITE | OTHER | OTHER — MODE, AMOUNT

TOTAL FRAC WIDTH per 10' or ____ in tenths of feet, or ____

COARSE | HEAVIES | WATER FLOAT | OTHER REMARKS & COMMENTS

P7 QZ 8 DC I T PM — PH PF PM — 4F — D3 — D1

Fine shredded & beak BI; QZ-P-in altered PF (ENVELOPES not QZ-P)

VISUAL ESTIMATES .1 — ACTUAL ASSAYS .225 | .002 — SMP

5 — 463 — D2C — P | 8 | RI | DC I T | PF | PF | PM — 3F — N — <3 — <2

C: P7 QZ 8 DC I T PM — PH PF PM PL — 4F — D3 — D2

H:

W: Fine pepper PY - CC ; BI as above; GRDR ?? - QZ - No KF

VISUAL .1 — ACTUAL .360 | .002

10 — 478 — D3C — P | 7 | KI | DC I T | PF | PM | PM — 3F HI L S S4 II L — <3 — <2

C: K3 — E3 GR DR PH — PH FF 3H PL — 4F — D2 — D2

H:

W: BI → MS : Chips - PDC I T LT - JA along fract.

VISUAL .1 — ACTUAL .245 | .021

15 — 492 — D2C — P | 7 | BI | DC I T | PF | PM | PM — 3F — N — <3 — <2

C: K — E3 GR DR PM PL PL DM PM — 4M — D3 D1 — D1

H:

W: KF - ? primary

VISUAL .2 — ACTUAL .310 | .033 — CNT

20 — 507 — D2C — P | 6 | DC I T | SM | 4M | PF — SM — N — <3 — <2

C: K — E3 GR DR E3 A — PH PA — 5H — D3 D1 — D3

CNT

H: 510 — 3A PL T PF — PM PL — 5M — N D3 — D1

W: Chips - bleached PDC I T

VISUAL .25 — ACTUAL .240 | .030

25 — 521 — D3C — 7 | 5 | GRNT | PF | PA | PM — 3F — N — <3 — <2

C: K — E3 GR DR 3H — PH 3H — 5H — M3 9 1 0 L D3 D1 — D3 D1

H:

W: CC largely replacing PY

VISUAL .35 — ACTUAL .295 | .026

30 — 535 — D3C — 6 | 5 | GRNT | GH | 4M | PF | PL | SM — N — <3 — <2

CW BG — CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: _____ PROPERTY: _____ LOGGED BY: _____ DATE: _____

HOLE NUMBER R18

CW BG FORM 7 BY BT FOR RIO ALGOM

DIP _____ AZIM. _____ TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CORE

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS: Or Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC. DENSITIES (< TO AXIS OF CORE: < 30° | 30-60° | > 60°)

Fractures/foot | %Fracs Altered or Min. | Fractures/foot | %Fracs or Min | Fractures/foot | %Fracs. Altered or Min

or RDH/PDH CUTTINGS: Large fragment diameter in mm | Percent Coarse | Min. Grind Mades per foot | GRND CONDN Caving & Swelling %

HOST ROCK: TYPE MODIFIER (Lighter than normal, N, Darker than normal; Alphasetic colour of Host Rock; Value 1 to 9 i.e Black, 9=White; Alphabetic colour of Frac); Or Use Rock Colour Chart and Munsell System; ACCESSORY MINERAL(S); TEXTURE; GRAIN SIZE; ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ; K-SPAR KF; BIOTITE BI; SERICITE MU; PYRITE PY; CLAYS CY; CHLORITE CL; EPIDOTE EP; CARBONATES CB; OTHER TC; OTHER HV — MODE OF OCCURRENCE, MODE, AMOUNT; Use 2-letter code at each interval required, or as headings in spaces above; MODE, AMT., MODE, AMT.; PRINCIPAL FACIES; INTENSITY

LIMONITES: TYPE Indigenous, Fringe or Exotic; CAVITIES; FRACTURE VOIDS; GANGUE REACTIVITY; MINERALS CONTROLLING COLOUR: % JAROSITE, % GOETHITE, % HEMATITE, % Or Use Rock Colour Chart and Munsell System; LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☐ OR (B) ☐ SCALE: PYRITE, CHALCOPYRITE, MOLYBDENITE, CHALCOCITE ON GANGUE, CHALCOCITE, OTHER, OTHER — MODE, AMOUNT

TOTAL FRAC WIDTH per ___ or ___ in tenths of feet, or ___

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu. | MoS_2

COARSE | HEAVIES | WATER FLOAT | OTHER REMARKS & COMMENTS

K — E3GRDR3X — PH3APL5 — 5X — <3 D1 D1 <3 D2

GRDR?? - Chips PDCIT-3? texture

VISUAL ESTIMATES .25 | ACTUAL ASSAYS .760 | .033

SUP 5 — 550 — W3C — 6 — SGRNT

K — E3GRDR3M — RA3APL — 5A — <3 D1 <2 D1

CC - thin skin

.2 VISUAL | .260 | .025 ACTUAL 10 — 564 — W4 — 7

E3APLT3H — AH3APL — 5H — >3 D1 <2 D2

CNT — 570

QZ - mainly P with alt PF ; KF altered - slight pink tinge

GRDR - 40%

.3 VISUAL | .270 | .023 ACTUAL 15 — 579 — W3 — 6 — SAPLT PF — PM — PL — 5M — N<3 D1 <2 D1

K — E3GRDR3A — 3H — 5H — >4 D1 >2 D2

.35 VISUAL | .285 | .023 ACTUAL CNT 20 — 593 — W3 — 6 — 3APLT 6F — 4M — PL — 5M — N<3 D1 <2 K1

.275 VISUAL | .018 ACTUAL 25 — 609 — W3 — 6 — 5GRNT 6A — 4M — 5M — N<3 K2 V1 K2 C1

.225 VISUAL | .032 ACTUAL 30 — 623 — W2 — 6 — SGRNT 6A — 4M — PF — 5F — N<3 K1 <2

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R18

COMPANY: PROPERTY: LOGGED BY: DATE: -

CW&G FORM

DIP ___ AZIM. ___

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

Alteration OTHER headings: 15 | HY

Cu	MoS_2	Contacts and principal zones (cols 1–6)	Bottom of interval described (7–10)	Frac. densities (11–16)	Host rock type modifier / colour (17–21)	Grain size (25)	Rock type (26–29)	Quartz QZ (30–31)	K-spar KF (32–33)	Biotite BI (34–35)	Sericite MU (36–37)	Clays CY (40–41)	Chlorite CL (42–43)	Other 15 (48–49)	Principal facies / intensity (52–53)	Limonites (54–62)	Pyrite (63–64)	Chalcopyrite (65–66)	Molybdenite (67–68)	Chalcocite on gangue (69–70)
.155	.027	SUP	638	W3	6	S	GRNT	6A			4M		PL	PA	5M	N	<3	D 1	V 1	<1
.335	.030	SUP	652	W2	6	S	GRNT	6M	4M	4M		PA			7M	I S S S 3 S 2 L	<3		D	<.2

END

Note grade & ALT jump bottomed hole(?) ? good ce

good ✓

?

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD. (CW&G)

HOLE NUMBER: R19

COMPANY: Brameda Resources Ltd — PROPERTY: Casino Project — LOGGED BY: C.G. — DATE: FEB. 1971 — PAGE 1 OF 7

DIP: ____ AZIM: ____

TYPE OF HOLE: DDH [ ] RDH [✓] PDH [ ]

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

MINERALIZATION PERCENT BY: (A) [✓] OR (B) [ ] SCALE

Alteration OTHER columns: TD, HX

Visual / Actual Cu	Actual MoS_2	Contacts and Principal Zones	Bottom of Interval Described	Frac. Densities	Type Modifier	Value	Rock Type	Quartz QZ Mode/Amount	Sericite MU Mode/Amount	Pyrite PY Mode/Amount	Principal Facies	Intensity	Limonite Type	Cavities	Fracture Voids	Gangue Reactivity	% Jarosite	% Goethite	% Hematite	Limonite Intensity	Pyrite Mode/Amount	Molybdenite Mode/Amount	Other
		ØVB	23	D.																			
.035	TR	CAP	38	D.3	P	9	DCIT	PA	PA	PF	S	M	I	S	S	5	7	3	0	F			
.035	TR	CAP	53	D.3	P	9	DCIT	6A	4A	PF	S	M	I	S	S	5	9	0	0	F		D1	
.050	TR	CAP	68	D.4	P	9							I	S	M	5	8	2	0	F			
.045	.002	CAP	83	D.3	P	9	DCIT						I	S	S	5	9	1	0	F			
.035	TR	CAP	98	D.2	P	8	DCIT						I	S	S	5	A	6	0	L	D1		MK

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER RM

PAGE 2 OF 7

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

Visual	Actual Cu	Actual MoS_2	Contacts and Principal Zones	Bottom of Interval Described	Frac. Densities	Type Modifier	Value	Rock Type	Quartz QZ	Sericite MU	Clays CY	Principal Facies / Intensity	Limonites (54–62)	Limonite Intensity	Pyrite	Chalco-cite on Gangue / Chalcocite	Other
	020	002	CAP	1.13	D3	P	9	DCIT	PA	PA	PF	SM	I L L 5 8 2 9	L			
	.020	.002	CAP	1.28	D2	P	9	DCIT	6A	4A	PF	SM	I L L 5 9 1 0	L	D1		MK
	.015	TR	CAP	1.43	D2	P	9	DCIT	6A	4A	PF	SM	I L 8 5 9 1 0	L	D2		
.05	.015	TR	CAP	1.57	D2	P	8	DCIT	PM	PM	PL	SM	I L S 5 8 2 0	F	<4		
.1	.015	.012	CAP	1.71	D2	P	7	DCIT	PM	PM	PL	SM		N	<4	D1	
.1	.040	.002	SUP	1.86	D2	P	7	DCIT	PM	PM	PL	SM	I S 5 6 3	L	<4	<1 D1	

Comment lines (C / H / W):

- 1.28: [illegible]
- 1.43: ~~P QZB DCITPL RH3HPF 5HMMS3901 572 0 0~~
- 1.43 (W): PY→JA O- MS BI
- 1.57: ~~P 8 DCITPM PM3APL 5M D4 0 0 D1 0~~
- 1.57 (W): Hard QZ- aphanitic groundmass O-MS-BI ✓ V. MINOR
- 1.71: ~~P QZB DCITPM PMPA PL 5MMMS3 901 D4 0 0 D1 0~~
- 1.71 (W): ~~✓ PY→JA~~

CW BG CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R19

CW BG FORM 7 (-82) BY BT FOR CW BG LTD.

DIP AZIM.

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CORE

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

ESTIMATES & ASSAYS

ELEMENTS OR MINERALS: Cu | MoS_2

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS: Or Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC. DENSITIES — ∠ TO AXIS OF CORE: < 30° | 30-60° | > 60°

Fractures/foot | % Fracs Altered or Min. | Fractures/foot | % Fracs Altered or Min. | Fractures/foot | % Fracs Altered or Min.

or RDH/PDH CUTTINGS: Large fragment diameter in mm | Percent Weight lost by Wash | Minutes per foot | GRND CONDN: Caving & Swelling

HOST ROCK

TYPE MODIFIER (Lighter than normal, M. Darker than normal, A. Chromatic colour of Host Rock; Value 1 to 9, 1=Black, 9=White; Alphabetic colour of Lines) | ACCESSORY MINERAL(S) | TEXTURE | GRAIN SIZE | ROCK TYPE — USE 4-LETTER CODE

Or Use Rock Colour Chart and Munsell System

ALTERATION ASSEMBLAGES

	QUARTZ QZ	K-SPAR KF	BIOTITE BI	SERICITE MU	PYRITE PY	CLAYS CY	CHLORITE CL	EPIDOTE EP	CARBONATES CB	OTHER	OTHER
MODE OF OCCURRENCE											
MODE											
AMOUNT											

Use 2-letter code at each interval required, or as headings in spaces above

PRINCIPAL FACIES | INTENSITY

LIMONITES

TYPE (Indigenous, Fringe or Exotic) | CAVITIES | FRACTURE VOIDS | GANGUE REACTIVITY | MINERALS CONTROLLING COLOUR: % JAROSITE | % GOETHITE | % HEMATITE | %

Or Use Rock Colour Chart and Munsell System

LIMONITE INTENSITY

MINERALIZATION

PERCENT BY: (A) ☐ OR (B) ☐ SCALE

	PYRITE	CHALCOPYRITE	MOLYBDENITE	CHALCOCITE ON GANGUE	CHALCOCITE	OTHER	OTHER
MODE							
AMOUNT							

TOTAL FRAC WIDTH per 0.1 ft or ____ in tenths of feet, or ____

COARSE | HEAVIES | WATER FLOAT | OTHER REMARKS & COMMENTS

P — QZ 8 — DCIT 3A — BA 3A PL — 5A — M3 901 — 1 >4 — D1

JA - only on occ. PY-V BI → MS? - rare sec. BI

VISUAL ESTIMATES .05

ACTUAL ASSAYS .050 | .002

SUP | 2.01 | D3 | A | 7 | DCIT | 6A | 4A | PL | SM | N | >4 | >1

C

P — QZ 8 — DCIT 3A — PA 3A PL — 5A — M3 901 — 1 >4 — 0 0 D1 — 0 M

H

W

VISUAL .05

ACTUAL .060 | .012

SUP | 2.15 | D5 | A | 6 | DCIT | 6A | 4A | PL | SM | N | >4 | >1

C

P — QZ 8 — DCIT 3A — PA 3M PL — 5A M M3 901 — 1 >3 0 $ >3

H

PY common CC film. Rare MS BI Hard QZ matrix

W

VISUAL .1

ACTUAL .095 | .015

SUP | 2.30 | D3 | A | 7 | DCIT | 6A | 4A | PL | SM | N | >4 | >1

C

P — QZ 8 — DCITPA — PA 3A PL — 5A MMM3 703 — 1 >4 0 0 $2

H

Fine QZ in matrix - aphanitic. MS BI slightly more common.

W

VISUAL .1

ACTUAL .085 | .009

SUP | 2.44 | D3 | A | 7 | DCIT | PA | PA | PL | SM | N | >4 | >1

C

P — QZ 8 — DCITPA — PA 3A PL — 5A — >4 0 0 D1

H

BI → MS

W

VISUAL .05

ACTUAL .080 | .009

SUP | 2.59 | W5 | A | 7 | DCIT | PM | PM | PF | SF | N | >4 | >1

C

P — QZ — DCITPM — PA 3A PL — 5A — >4 0 0 D1

H

Fine QZ in PF

W

VISUAL .05

ACTUAL .115 | .010

SUP | 2.73 | W3 | A | 7 | DCIT | PM | PA | PF | SM | N | >4 | >1

DRILL HOLE GEOLOGIC LOG

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R19 — PAGE 4 OF 7 — CW&G FORM 71-

DIP ____ AZIM. ____ TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

Visual Cu	Visual MoS_2	Actual Cu	Actual MoS_2	Contacts and principal zones	Bottom of interval described	Frac. (cols 13–14)	Type (17)	Host rock value (19)	Rock type (4-letter code)	Alteration (cols 30–51)	Principal facies / intensity (52–53)	Limonite intensity (62)	Pyrite (63–64)	Cols 68–69
.1		.085	.005	SUP	287	W2	P	8	DCIT	PM; PF; PM	5L	N	>4	>1
.1		.115	.010	SUP	301	W2	P	7	DCIT	PM; PM; PF	5F	N	>4	>1
.1		.155	.007	SUP	315	W2	P	7						
.1		.130	.002	SUP	330	W2	P	7						
.1		.095	.002	SUP	345	W2	P	7						
.1		.195	.002	SUP	362	W2	P	7						

Coarse / Heavies / Water float / Other remarks & comments:

Interval to 287: ~~P 8 DC+7PF PH34PL 4A HMM3 901 + >4 >1~~ — LI - Rare

Interval to 301: ~~P B DC+TPF PH34PL 4H >4 >1~~ — Phenocryst crowded. fine grained in dark grey aphanitic matrix. Pepper PY common.

Interval to 315: ~~P QZ8 DC+TPL~~ — Rare MSBI

Interval to 330: ~~P QZ8 DC+TPF PM34PL 4M >4 >1~~ — PF slightly harder. Rare cavity-JA

Interval to 345: ~~P QZ8 DC+TPF PM34PL 4M 5390+ >4 >1~~ — QZ - PM - alt of PF - abundant QZ

Interval to 362: ~~P QZ8 DC+T3F PA34PL 4A <4 <1~~ — Note: chips showing QZ+ - probably QZ-MS-PY veinlet.

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER E19

CW&G FORM 71-02 BY B.T. FOR P.H. BLANCHET

DIP AZIM. CORE

TYPE OF HOLE: DDH ☑ RDH ☐ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu. MoS

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC. DENSITIES ± TO AXIS OF CORE: <30° | 30-60° | >60° — Fractures/foot; % Fracs Altered or Min. — or RDH/PDH CUTTINGS: Large fragment dia. in mm; Percent Coarse; Wet/Moist or Dry; GRND COND'N: Minutes per foot; Caving & Swelling; % Fracs Altered or Min.

HOST ROCK: TYPE MODIFIER (Lighter than normal, N, Darker than normal, Alphabetic colour of Host Rock; Value 1 to 9 1=Black, 9=White, Alphabetic colour of Fines; Or Use Rock Colour Chart and Munsell System); ACCESSORY MINERAL(S); TEXTURE; GRAIN SIZE; ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ (MODE OF OCCURRENCE, AMOUNT); K-SPAR KF; BIOTITE BI; SERICITE MU; PYRITE PY; CLAYS CY; CHLORITE CL; EPIDOTE EP; CARBONATES CB (MODE, AMOUNT); OTHER OTHER (Use 2-letter code at each interval required, or as headings in spaces above); PRINCIPAL FACIES; INTENSITY

LIMONITES: TYPE (Indigenous, Fringe or Exotic); CAVITIES; FRACTURE VOIDS; GANGUE REACTIVITY; MINERALS CONTROLLING COLOUR (% JAROSITE, % GOETHITE, % HEMATITE, %); Or Use Rock Colour Chart and Munsell System; LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☐ OR (B) ☐ SCALE: PYRITE; CHALCOPYRITE; MOLYBDENITE; CHALCOCITE ON GANGUE; CHALCOCITE; OTHER; OTHER — MODE, AMOUNT

TOTAL FRAC. WIDTH per 10ft or ____ in tenths of feet, or ____

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

COARSE → HEAVIES → WATER FLOAT → OTHER REMARKS & COMMENTS

VISUAL ESTIMATES .05 — ACTUAL ASSAYS .185 | .002

5 SUP 375 W3 P 7 DCIT PA PA PF 5M N >4 >1

C P QZ 8 DC I T P F 3 A P A P L 4A D4 D1 U

H

W

VISUAL .05

10 ACTUAL .185 | TR SUP 390 W3 P 7 P QZ 8 DC I T 3 F 3M PA PL 4M D4 D1 M

C

H

W CC film on PY on fract.

VISUAL .05

15 ACTUAL .305 | .002 SUP 405 W3 P 7 P QZ 8 DC I T 3 F 3M 3A PL 4M D4 D1 T

C

H

W

VISUAL .05

20 ACTUAL .145 | TR SUP 419 W3 P 7 DCIT 6A 4A PF 5M N P QZ 8 DC I T 3 L 3M 3A PL 4M D4 D1 U

C

H

W PF - slightly soft - slight pale green tinge in center large Phano. A

VISUAL .1

25 ACTUAL .115 | .002 SUP 434 W3 P 7 DCIT PA PM PF 5M N P QZ 8 DC I T 3 L 3M 3A PL 4M >4 U

C

H

W

VISUAL .05

30 ACTUAL .130 | .002 SUP 449 W3 P 7 N

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R19

PAGE 6 OF 7

CW&G FORM 7: 60 BY B.T. FOR P.H.R.JAN.

DIP AZIM.

TYPE OF HOLE: DDH ☑ RDH ☐ PDH ☐

CORE

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu. MoS2

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC DENSITIES — ∠ TO AXIS OF CORE: < 30° | 30-60° | > 60°

Fractures/foot | Altered % Fracs or Min. | Fractures/foot | Altered % Fracs or Min. | Fractures/foot | Altered % Fracs or Min.

or RDH/PDH CUTTINGS: Large fragment diameter in mm | Percent Coarse | Wet/Moist or Dry | GRND COND'N: Minutes per foot | Caving & Swelling %

HOST ROCK

TYPE MODIFIER (Lighter than normal, N; Darker than normal, D; Alphabetic colour of Fines: Value 1 to 9, 1=Black, 9= White; Alphabetic colour of Fines) — Or Use Rock Colour Chart and Munsell System

ACCESSORY MINERAL(S) | TEXTURE | GRAIN SIZE | ROCK TYPE — USE 4-LETTER CODE

ALTERATION ASSEMBLAGES

QUARTZ QZ — MODE OF OCCURRENCE	AMOUNT	K-SPAR KF MODE	AMOUNT	BIOTITE BI MODE	AMOUNT	SERICITE MU MODE	AMOUNT	PYRITE PY MODE	AMOUNT	CLAYS CY MODE	AMOUNT	CHLORITE CL MODE	AMOUNT	EPIDOTE EP MODE	AMOUNT	CARBONATES CB MODE	AMOUNT	OTHER TØ MODE	AMT.	OTHER HX MODE	AMT.	PRINCIPAL FACIES	INTENSITY

Use 2-letter code at each interval required, or as headings in spaces above

LIMONITES

TYPE Indigenous, Fringe or Exotic | CAVITIES | FRACTURE VOIDS | GANGUE REACTIVITY | MINERALS CONTROLLING COLOUR: % JAROSITE | % GOETHITE | % HEMATITE | % — Or Use Rock Colour Chart and Munsell System | LIMONITE INTENSITY

MINERALIZATION — PERCENT BY: (A) ☐ OR (B) ☐ SCALE

PYRITE MODE	AMOUNT	CHALCOPYRITE MODE	AMOUNT	MOLYBDENITE MODE	AMOUNT	CHALCOCITE ON GANGUE MODE	AMOUNT	CHALCOCITE MODE	AMOUNT	OTHER	OTHER

TOTAL FRAC WIDTH per 100 or ___ in tenths of feet, or ___

COARSE → | HEAVIES → | WATER FLOAT → | OTHER REMARKS & COMMENTS →

P — QZ 8 DC I T P L — PM 3M PL — 4M — >3

Fine crowded PPRY

VISUAL ESTIMATES .05 — ACTUAL ASSAYS .160 | .009 — SUP

463 | W3 | P | 7 | DC I T | 6A | 4M | PI | 5TM | IN | <4 | <1

C: P — QZ 8 DC I T P L — PM 3M PL — 4M — >3 — <1 — U

H:

W:

VISUAL .05 — ACTUAL .125 | .009 — SUP

478 | W3 | P | 7 — QZ 8 DC I T P L — 3A 3M PL — 4A MM 5901 | <4

JA repl PY rare

VISUAL .05 — ACTUAL .110 | .012 — SUP

492 | W2 | P | 7 — QZ 8 DC I T V L — 3A 3M PL — 4A ML 5901 | <4 — <1

Often matrix alt

VISUAL .05 — ACTUAL .035 | .003 — SUP

507 | W3 | P | 7 — QZ 8 DC I T P L — 3A 3M PL — 4A ML 5901 | <4 — <1

Vein pair

VISUAL .05 — ACTUAL .055 | .005 — SUP

521 | W3 | P | 7 | DC I T | 6A | 4A | SIA | IN | <4 | <1

C: P — QZ 8 DC I T P A — 3M 3M PL — 4M ML 5901 | <4 D1 D1 | >1 — U

H:

W:

KF? - soft slight pink TØ-? may be 7L?

VISUAL .01 — ACTUAL .060 | .002

536 | W3 | P | 7 | DC I T | 6A | 4A | PM | 5TA | IN | <4 D1 D1

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R19

COMPANY: PROPERTY: LOGGED BY: DATE:

PAGE 7 OF 7

CW&G FORM 21-69 BY BT FOR PHOTON

DIP AZIM. TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CORE

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

ESTIMATES & ASSAYS

ELEMENTS OR MINERALS: Cu MoS2

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS Of Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC. DENSITIES: ∠ TO AXIS OF CORE: <30° | 30-60° | >60°

Fractures/foot | %Frac. Altered or Min.

or RDH/PDH CUTTINGS: Large fragment diameter in mm | Percent Coarse | GRND COND'N: Dry (Moist or Wet) | Drilling Rate min/foot | Caving & Swelling

HOST ROCK: TYPE MODIFIER (Lighter than normal, N, Darker than normal; Alphabetic colour of Host Rock; Value 1 to 9, 1=Black, 9=White; Alphabetic colour of Fines; Or Use Rock Colour Chart and Munsell System) | ACCESSORY MINERAL(S) | TEXTURE | GRAIN SIZE | ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ | K-SPAR KF | BIOTITE BI | SERICITE MU | PYRITE PY | CLAYS CY | CHLORITE CL | EPIDOTE EP | CARBONATES CB | OTHER TΦ | OTHER LI — MODE OF OCCURRENCE / AMOUNT; Use 2-letter code at each interval required, or as headings in spaces above; PRINCIPAL FACIES | INTENSITY

LIMONITES: TYPE (Indigenous, Fringe or Exotic) | CAVITIES | FRACTURE VOIDS | GANGUE REACTIVITY | MINERALS CONTROLLING COLOUR: % JAROSITE | % GOETHITE | % HEMATITE | % ; Or Use Rock Colour Chart and Munsell System | LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☐ OR (B) ☐ SCALE: PYRITE | CHALCOPYRITE | MOLYBDENITE | CHALCOCITE ON GANGUE | CHALCOCITE | OTHER | OTHER — MODE / AMOUNT

TOTAL FRAC WIDTH per 10ft or ____ in feet, or ____

COARSE | HEAVIES | WATER FLOAT | OTHER REMARKS & COMMENTS

VISUAL ESTIMATES .1 | ACTUAL ASSAYS .050 .002

5 SUP 550 W5 P QZ 8 DCIT 6A 4A 1P PF 5M NK4D1 K1 IG1 weak.

C P QZ 8 DCITPF 3H3MPL PF →4D1 D1 D1

H

W

VISUAL .1 | ACTUAL .125 TR

10 559 W4 P QZ DCIT N K4D1 K1 strongen.

END

H

W

VISUAL | ACTUAL

15

REMARKS: (1) NO HX

(2) NO CB

(3) Almost out of supergene zone.

C

H

W

VISUAL | ACTUAL

20

C

H

W

VISUAL | ACTUAL

25

C

H

W

VISUAL | ACTUAL

30

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

C Godwin

HOLE NUMBER RZO

COMPANY: Bramalea Resources Ltd PROPERTY: Cosino Project LOGGED BY: M.P. [illegible] DATE: August 10, 1970 PAGE 1 OF 6

CW&G FORM 71 BY BT FOR PRINTER

DIP ____ AZIM. ____ TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CORE

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC. DENSITIES — ANGLE TO AXIS OF CORE: <45° | 45-60° | >60°
Fractures/foot | Altered % Fracs or Min. | Fractures/foot | Altered % Fracs or Min. | Fractures/foot | Altered % Fracs or Min.
or RDH/PDH CUTTINGS: Large fragment dia. in mm. | Percent Coarse | GRND CONDT: Wet/Moist or Dry | Minutes per foot Coring & Cutting

HOST ROCK: TYPE MODIFIER (Lighter than normal N, Darker than normal D, Alloch. colour of Host Rock, Value 1 to 9 i.e. Black 9, White 1, Alphabetic colour of Fines; Or Use Rock Colour Chart and Munsell System) | ACCESSORY MINERAL(S) | TEXTURE | GRAIN SIZE | ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ (MODE OF OCCURRENCE, AMOUNT) | K-SPAR KF (MODE, AMOUNT) | BIOTITE BI (MODE, AMOUNT) | SERICITE MU (MODE, AMOUNT) | PYRITE PY (MODE, AMOUNT) | CLAYS CY (MODE, AMOUNT) | CHLORITE CL (MODE, AMOUNT) | EPIDOTE EP (MODE, AMOUNT) | CARBONATES CB (MODE, AMOUNT) | OTHER TΦ (MODE, AMT.) | OTHER HX (MODE, AMT.) — Use 2-letter code at each interval required, or as headings in spaces above | PRINCIPAL FACIES | INTENSITY

LIMONITES: TYPE (Indigenous, Fringe or Exotic) | CAVITIES | FRACTURE VOIDS | GANGUE REACTIVITY | MINERALS CONTROLLING COLOUR (% JAROSITE | % GOETHITE | % HEMATITE | %) Or Use Rock Colour Chart and Munsell System | LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE: PYRITE (MODE, AMOUNT) | CHALCOPYRITE (MODE, AMOUNT) | MOLYBDENITE (MODE, AMOUNT) | CHALCOCITE ON GANGUE (MODE, AMOUNT) | CHALCOCITE (MODE, AMOUNT) | OTHER | OTHER

TOTAL FRAC WIDTH per ____ or ____ in tenths of feet, or ____

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu. | MoS_2

COARSE → | HEAVIES → | WATER FLOAT → | OTHER REMARKS & COMMENTS →

VISUAL ESTIMATES / ACTUAL ASSAYS

ØUB — 23 — .03

C: M — E3 QZ DP 3M — RH — 0 — 5XMSM3901 3
H:
W:

Minor PY → JA Chip - PDCIT?, Rock characterized by up to 3mm QZ with sec. QZ coating QZDR?

VISUAL .02 / ACTUAL .015 TR — CAP — 38 — .03

C: M — E3 QZ DR 3A — RH — 0 — 5XMSM3901 3
H:
W:

Minor book MS BI. Generally PY grains → JA in cavities

VISUAL / ACTUAL .010 .002 — CAP — 52 — .02

C: M — E3 QZ DR 3A — PA — 3F — 5HMMM3901 3
H:
W:

PY coats - thin coating in cavity

VISUAL / ACTUAL .010 .002 — CAP — 67 — .03

C: M — E3 QZ DR VA — FH — 3H — 6HMMM3901 7
H:
W:

TΦ - mainly veinlets

VISUAL / ACTUAL .010 TR — CAP — 82 — .03

C: M — E3 QZ DR 3H — 3H — 3H — 6HMEM3901 7
H:
W:

B - some along former PY fract. Rare specks PY encapsulated QZ

VISUAL / ACTUAL .015 TR — CAP — 98 — .03

C: R — 5GRNT 6A — 4A — 3H — 5AIL4S9110 1A

CW BG CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R20

CW BG FORM 7 BY B.T. FOR P.H. BLANK

DIP AZIM.

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CORE

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

ESTIMATES & ASSAYS

ELEMENTS OR MINERALS: Cu | MoS_2

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC. DENSITIES (< 30° TO AXIS OF CORE | 30-60° | > 60°): Fractures/foot | Altered or Min. % Fracs | Fractures/foot | Altered or Min. % Fracs | Fractures/foot | Altered or Min. % Fracs

or RDH/PDH CUTTINGS: Large fragments dia. in mm | Percent Coarse | Weight lost on Ig. | GRND CONDTN Minutes per foot | Caving & Swelling

HOST ROCK: TYPE MODIFIER (Lighter than normal, Sl. Lighter than normal, Alphabetic colour of host Rock) | Or Use Rock Colour Chart and Munsell System | value 1 to 9 1=Black, 9=White | (Alphabetic colour of Fines) | ACCESSORY MINERAL(S) | TEXTURE | GRAIN SIZE | ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ | K-SPAR KF | BIOTITE BI | SERICITE MU | PYRITE PY | CLAYS CY | CHLORITE CL | EPIDOTE EP | CARBONATES CB | OTHER | OTHER — MODE OF OCCURRENCE | AMOUNT; Use 2-letter code of each interval required, or as headings in spaces above | PRINCIPAL FACIES | INTENSITY

LIMONITES: TYPE Indigenous, Fringe or Exotic | CAVITIES | FRACTURE VOIDS | GANGUE REACTIVITY | MINERALS CONTROLLING COLOUR % JAROSITE % GOETHITE % HEMATITE % Or Use Rock Colour Chart and Munsell System | LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE: PYRITE | CHALCOPYRITE | MOLYBDENITE | CHALCOCITE ON GANGUE | CHALCOCITE | OTHER | OTHER — MODE | AMOUNT

TOTAL FRAC WIDTH per m or ____ in terms of feet, or ____

COARSE → HEAVIES → WATER FLOAT → OTHER REMARKS & COMMENTS →

VISUAL ESTIMATES / ACTUAL ASSAYS

.020	TR	CAP	113	D3				
.015	TR	CAP	127	D3				
.010	.037	CAP	142	D3				
.055	.007	CAP	156	D2				
.065	TR	CAP	170	D2				
.040	.002	CAP	185	M3				

B - PY often massive JA

B - often after PY

Mainly fine fragments - highly fract + altered?

E3 APLT - H ALTERATION? MU E.I - not observed

Rare BI - MS

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD. CW&G FORM

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER P20

DIP ___ AZIM ___ TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

Cu (actual assay)	MoS_2 (actual assay)	Contacts and principal zones	Bottom of interval described	Frac densities	Host rock (value)	Rock type	QZ	MU	CY	Other	Principal facies / intensity	Limonite intensity	Pyrite	Chalcopyrite	Molybdenite	Chalcocite on gangue	Other
.090	.002	SUP	200	W2	6	SGRNT	6A	4H	PA	PA	SM	H	#3			#1	
.085	.002	SUP	215	W2	6		6A	4H	PF	PA	SM	H	#3			#1	
.070	.016	SUP	229	W2	6		6A	4H	PF	3H	SM	H	#3			#1	
.135	.021	SUP	244	W2	6		6A	4H	PM	PF	SF	A	#3			#1	
.160	.057	SUP	258	W2	6		6A	4H	PM	3M	SF	N	#3		D1	#1	
.085	.007	SUP	272	W2	6		6A	4H	PM	3M	SF	L	#3	D1			CV

Remarks (coarse / heavies / water float / comments):

- Before 200: ~~M E3 QZ DR 3H 3H 3F PF 6H MH 3 901 H 3F~~ — BYW – PY
- 200–215: C: ~~M E3 QZ DR 3H 3H 3A PL 6AMSH3 901 M33D1 31 D1~~
- 215–229: C: ~~M E3 QZ DR 3A 3A 3A PH 6AMSS3 901 H D3 32~~ — W: BI → MS rarely present.
- 229–244: C: ~~M E3 QZ DR 3M 2A 3A PA 6HMSS3 901 H 33 32~~ — 6F ?
- 244–258: C: ~~M E3 QZ DR 3H 3H 3M 3H 6K MF33 901 F 33 D1 D2 CV~~ — W: QZ mainly as veinlets : QZ-MS-PY bands — 6F
- 258–272: C: ~~M E3 QZ DR 3H 3H 3M PF 6H FL33 901 M 33 D1 31~~ — W: CY mainly in QZ-MS-PY - Veinlets — 6F

DRILL HOLE GEOLOGIC LOG

CW&G — CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER: R20

PAGE 4 OF 6

CW&G FORM

DIP: AZIM.: TYPE OF HOLE: DDH [ ] RDH [✓] PDH [ ]

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS_2

Column headings: STRUCTURE AND/OR ALTERATION; ZONE & HOST ROCK; CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float; BOTTOM OF INTERVAL DESCRIBED; FRAC. DENSITIES (∠ TO AXIS OF CORE <30°, 30-60°, >60°: Fractures/foot, Altered % Fracs or Min; or RDH/PDH CUTTINGS: Large fragment diameter in mm, Percent Coarse, Wet/Moist or Dry, GRND COND'N Minutes per foot, Caving & Swelling); HOST ROCK (Type modifier; Lighter than normal L, Darker than normal D; Alphabetic colour of host rock; Value 1 to 9, 1=Black, 9=White; Alphabetic colour of fines — or use Rock Colour Chart and Munsell System; Accessory mineral(s); Texture; Grain size; Rock type — use 4-letter code); ALTERATION ASSEMBLAGES (Quartz QZ, K-Spar KF, Biotite BI, Sericite MU, Pyrite PY, Clays CY, Chlorite CL, Epidote EP, Carbonates CB, Other Tφ, Other — Mode of occurrence, Amount; Use 2-letter code at each interval required, or as headings in spaces above; Principal facies; Intensity); LIMONITES (Type: Indigenous, Fringe or Exotic; Cavities; Fracture voids; Gangue reactivity; Minerals controlling colour: % Jarosite, % Goethite, % Hematite, % — or use Rock Colour Chart and Munsell System; Limonite intensity); MINERALIZATION PERCENT BY (A) ✓ OR (B) SCALE (Pyrite, Chalcopyrite, Molybdenite, Chalcocite on gangue, Chalcocite, Other, Other — Mode, Amount); TOTAL FRAC WIDTH (per foot, or in tenths of feet). Card columns 1–80.

Cu	MoS_2	Contacts / zones	Bottom of interval	Frac. densities	Host rock	Alteration assemblages	Principal facies / intensity	Limonites	Mineralization
		COARSE			~~M E3QZDR3H~~	~~3H3H~~ ~~DF~~	~~6H~~	~~FE53901 L34~~	~~D1D1D1~~
.110	.023	SUP	287	W3	6 5 GRNT	6A 4A DL	5M	I M 090 L	#3 #1
		C			~~M E3QZDR3A~~	~~3H3A~~ ~~3M~~	~~6H~~	~~53901 L34~~	~~31~~ D1
.100	.016	SUP	301	W3	6	6A 4A PF PF	5M	IES 090 L	#3 <1 #1
		C			~~M E3QZDR3A~~	~~3H3H~~ ~~DL~~	~~6H~~	~~53901 L35~~	~~D132D1~~
		W			Most frags are QZ-MS-PY veinlets				
.090	.025	SUP	317	W2	6 T	6A 4A PF 3L	5M	N	#4 D1 #1
		C			~~M E3QZDR3H~~	~~3H3A~~ ~~DF~~	~~6H~~		~~34~~ ~~32D1~~
.105	.005	SUP	331	W4	6	6A 4A 3F	5A	N	#3 #1
		C			~~M E3QZDR3A~~	~~PL3H3F~~ ~~3F~~	~~6H~~		~~32D1D1D1~~
		W			BI in ace frag, Black soft gdmass in BI frag — ? BI?				
.155	.002	SUP	346	W4	6	6A 4A 3M	5A	N	#3 D1 #1
		C			~~M E3QZDR3A~~	~~PF3A3H~~ ~~3F~~	~~6~~	~~M3 L3A~~	~~D2~~ ~~D1~~
		W			BI → pale green MS? or CL. XLS-QZ in occ cracks. ? (4 vs 5 vs 3)				
.145	.002	SUP	360	W5	6	6M 4A PMPF PF 3F	3F	N	#3 D1 #1

CW BG CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R20

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CW B.G. FORM 71

DIP ___ AZIM. ___

TYPE OF HOLE: DDH ☑ RDH ☐ PDH ☐

CORE

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC DENSITIES (∠ TO AXIS OF CORE): <30° | 30-60° | >60°

Fractures/foot | Altered or Min. | % Fracs or Min

or RDH/PDH CUTTINGS: Large fragment diameter in mm | Percent Coarse | Wet/Moist or Dry | GRND COND'N: Minutes per foot | Caving & Swelling

HOST ROCK: TYPE MODIFIER (Lighter than normal, Darker than normal, Alphabetic colour of host rock) | Or Use Rock Colour Chart and Munsell System | Value e.g. White 9½ | Alphabetic colour of Fines | ACCESSORY MINERAL(S) | TEXTURE | GRAIN SIZE | ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ | K-SPAR KF | BIOTITE BI | SERICITE MU | PYRITE PY | CLAYS CY | CHLORITE CL | EPIDOTE EP | CARBONATES CB | OTHER | OTHER — MODE OF OCCURRENCE, MODE, AMOUNT; Use 2-letter code at each interval required, or as headings in spaces above | PRINCIPAL FACIES | INTENSITY

LIMONITES: TYPE (Indigenous, Fringe or Exotic) | CAVITIES | FRACTURE VOIDS | GANGUE REACTIVITY | MINERALS CONTROLLING COLOUR: % JAROSITE, % GOETHITE, % HEMATITE, % — Or Use Rock Colour Chart and Munsell System | LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☐ OR (B) ☐ SCALE: PYRITE, CHALCOPYRITE, MOLYBDENITE, CHALCOCITE ON GANGUE, CHALCOCITE, OTHER, OTHER — MODE, AMOUNT

TOTAL FRAC WIDTH per 1.0 of ___ in terms of feet, or ___

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK | ESTIMATES & ASSAYS | ELEMENTS OR MINERALS: Cu | MoS2

1 2 3 4 5 6 | 7 8 9 10 | 11 12 | 13 | 14 15 16 | 17 | 18 19 20 21 | 22 23 24 25 26 27 28 29 | 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 | 48 49 50 51 | 52 53 | 54 55 56 | 57 58 59 60 61 62 | 63 64 65 66 67 68 69 70 71 72 | 73 74 75 76 | 77 78 79

COARSE → HEAVIES → WATER FLOAT → OTHER REMARKS & COMMENTS

VISUAL ESTIMATES / ACTUAL ASSAYS

M — E3QZDR3M — PF3M3H — 5A — >5 D2 D1

BI - thin books. Some BI → MB or CL.

.130 | .002 | S.U.P. 5 | 375 | W.2 | 6 | SGRNT | 6M | 4M | PLPF | PL | SF | N | #3D1 | #1V1

C — M — E3QZDR3A — PF3A3H — 3M — 6H — >4 D2

H

W — XLS QZ GY - -

.140 | .005 | S.U.P. 10 | 390 | W.4 | 6 | 1 | 6M | 1 | 4M | PF | PF | PM | SF | N | #3D1 | #1

C — M — E3QZDR3A — PF3M3A — 3F — 6A — >4 D2

H

W — MB outside envelopes in calcined soft. Occ fine book BT

.105 | .005 | S.U.P. 15 | 404 | W.4 | 6 | 6M | PF | PL | RA | 3L | 3F | N | #3D1 | #1

C — M — E3QZDR3H — 3H3H — 3H — 6H — 73 D2D1

H

W — BT → MB

.150 | .014 | S.U.P. 20 | 419 | W.2 | 7 | 6M | PM | PA | 3M | SF | N | #3D1 | #1

C — M — E3QZDR3H — PL3A3A — 3H — 6H — 44 D2 — D1

H

W — Occ 2mm BT - books - occ LS on edge

.185 | .018 | S.U.P. 25 | 433 | W.2 | 6 | 6M | PM | PM | PF | SL | N | #3 | #1V1

C — M — E3QZDR3H — 3H3M — PF — 6H — >3 D2D1

H

W — All flags QZ-MB-PY-envelopes.

.090 | .027 | S.U.P. 30 | 448 | W.5 | 6 | 6M | PM | 6A | 5M | N | #3 | V\#1V1

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R 20

PAGE 6 OF 6

CW&G FORM

DIP AZIM. TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

Cu	MoS_2	Contacts and Principal Zones	Bottom of Interval Described (7–10)	Host Rock (17–21)	Grain Size / Rock Type (25–29)	Quartz QZ (30–31)	Sericite MU (36–37)	Other TΦ (48–49)	Other H# (50–51)	Limonite Intensity (62)	Pyrite (63–64)
		Coarse		~~M 7~~	~~E3QZDR3H~~		~~3H3H~~	~~PF~~	~~6H~~		~~<4 D2~~
.115	.005	HYP	463	7	5GRNT	6A	4H	3H	5H	N	>A
		END									

REMARK ① NØ MG
② NØ CB.

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER: R 21

COMPANY: Brameda Resources Ltd. PROPERTY: Casino Project LOGGED BY: N.P. Phillips DATE: August 10, 1970 PAGE 1 OF 8

DIP: -90° AZIM. ___ TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

Cu	MoS_2	Contacts and Principal Zones	Bottom of Interval Described	Frac. Densities / Cuttings	Type Modifier	Colour / Value	Accessory Minerals / Grain Size	Rock Type	Quartz QZ	Sericite MU	Other	Principal Facies / Intensity	Limonites
		OVB	23	D.5									
		~~K 13 GRDR?~~								~~PH~~	~~3A~~	~~6H~~	~~FE 3 900 L~~
		W: GRDR? - BRA 5-9 Cavities - mostly yellow CY. Rare BXW - PY + LT.											
.005	TR	CAP	37	D.1		8	5	GRNT	6H	4H	3A	5H	I S S 9 0 0 L
		~~S QZ BRXX PH~~											
		W: XLS JA Cavities, 3 GRDR?											
.005	TR		52	D.1	S	8	QZ	BRXX	6H	4H	AL	5H	I S 9 0 9 L
		~~S QZ BRA 3 A PH 3H 6H HS 3 900 T~~											
		W: HE-?, JA in yellow soft argillic matrix ... QZ-sericitized.											
.010	TR		66	D.1	S	9			6H	AH	PE	5H	I S S 9 0 0 F
		~~S QZ BRA 3 H PA PE 6H HS 3 90 H~~											
.015	TR		81	D.3	S	9			PH	PH	PE	5H	I S 9 0 0 M
		~~S QZ BRA 3 H PA 3H 6H~~ HES 3 802 M											
		W: Rare M Cavity PY - JA											
.015	TR		96	D.2	S	9			6H	AH	3F	5H	I S S S 1 0 0 M

CW BG — CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R21

CW B.G. FORM 7-[illegible] BY B.T. FOR P.H.B. [illegible]

DIP ____ AZIM. ____ TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CORE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu. MoS_2

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS: On Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC DENSITIES — ∠ TO AXIS OF CORE: <30° | 30-60° | >60°

Fractures/foot | Altered % Fracs or Min

or RDH/PDH CUTTINGS: Large fragment diameter in mm | Percent Coarse | Wet/Moist or Dry | GRND. CONDTN: Minutes per foot | Caving & Swelling

HOST ROCK: TYPE MODIFIER (Lighter than normal, y, Darker than normal, g, Alphasteric colour of Host Rock, Value 1-Black, 9-White, Alphasteric colour of Fines) | ACCESSORY MINERAL(S) | TEXTURE | GRAIN SIZE | ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ (QZ) MODE OF OCCURRENCE, AMOUNT | K-SPAR KF | BIOTITE BI | SERICITE MU | PYRITE PY | CLAYS CY | CHLORITE CL | EPIDOTE EP | CARBONATES CB | OTHER TΦ | OTHER — Use 2-letter code at each interval required, or as headings in spaces above | PRINCIPAL FACIES | INTENSITY

LIMONITES: TYPE Indigenous, Fringe or Exotic | CAVITIES | FRACTURE VOIDS | GANGUE REACTIVITY | MINERALS CONTROLLING COLOUR: % JAROSITE, % GOETHITE, % HEMATITE, % — Or Use Rock Colour Chart and Munsell System | LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE: PYRITE | CHALCOPYRITE | MOLYBDENITE | CHALCOCITE ON GANGUE | CHALCOCITE | OTHER | OTHER

TOTAL FRAC WIDTH per unit Or ____ in tenths of feet, Or ____

STRUCTURE AND/OR ALTERATION ZONE & HOST ROCK

COARSE → HEAVIES → WATER FLOAT → OTHER REMARKS & COMMENTS

VISUAL ESTIMATES / ACTUAL ASSAYS

.010 TR CAP 1.1 D3 S 9 QZ B R A P H FA PH CHMLS 3 9 0 1 M

C 5 9 QZ B R A P H FA PF CHMLS 3 9 0 1 M

H

W

.010 TR 12.6 D3 S 9 1 S H PF PH PF S A I L 3 9 0 1 M D1

C 5 9 QZ B R A P F FM PF SAIL 3 9 0 1 M D1

H

W QZ-PF matrix other hand = KF?

.015 TR 14.1 D4 S 9 1 PH PH PF SH I S M S 9 0 0 1 F

C 5 9 PF CHML 3 9 0 1 M

H

W Plant-like matter becoming more common

.015 TR 15.5 D4 S 9 1 CH AH PF SA I N M S 9 0 0 1 F

C 5 9 QZ B R A P H FA PL PL SHMSS 3 9 0 1 F D1

H

W QZ in hard aphanitic matrix - dark PF Phenocryst.

.020 .002 17.0 D5 S 9 1 PH PH PF E L E S P I S M S 9 0 0 1 F D2 D1

C 5 9 QZ B I A S P H PH PL PL SHIL 3 9 0 1 M D1

H

W

.015 TR 18.4 D4 S 9 1 PH PH PF SH L S I S 9 0 1 1 F

DRILL HOLE GEOLOGIC LOG

CW&G CHAPMAN, WOOD AND GRISWOLD LTD. COMPANY: PROPERTY: LOGGED BY: DATE: HOLE NUMBER

CW&G FORM

DIP ____ AZIM. ____ TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

PERCENT BY: (A) ☑ OR (B) ☐ SCALE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

Actual assays Cu	Actual assays MoS_2	Contacts and principal zones	Bottom of interval described (7-10)	Frac. densities / RDH/PDH cuttings (11-16)	Type modifier (17)	Host rock colour (18-21)	Accessory mineral(s) (22-23)	Rock type (26-29)	Quartz QZ (30-31)	Sericite MU (36-37)	Other TΦ (48-49)	Principal facies / intensity (52-53)	Limonites (54-61)	Limonite intensity (62)
					~~S~~	~~9~~	~~QZ~~	~~BRXQ~~	~~3A~~	~~PH~~	~~PL~~	~~5H~~	~~I L S 3 9 0 0~~	~~F~~
		W: FM? JA? in QZ-H frags. JA XLS in cavities												
.010	TR	CAP	199	D4	S	9	QZ	BRXV	6H	AH	PH	5H	I S L K 9 0 0	F
		C			~~S~~	~~9~~	~~QZ~~	~~BRX~~	~~3H~~	~~PH~~	~~PL~~	~~5H~~	~~I L S 3 9 0 0~~	~~M~~
.010	TR	══	214	D3	S	9			6H	KH		5H	I S L S 9 0 0	L
		C			~~S~~	~~9~~	~~QZ~~	~~BRX~~	~~3H~~	~~PH~~		~~5H~~	~~I L S 3 9 0 0~~	~~M~~
		W: XLS JA in FRS.												
.005	TR	══	229	D2	S	9			PH	PH	PF	5H	I S S S 9 0 9	F
		C			~~S~~	~~9~~	~~AZ~~	~~BRAQ~~	~~3H~~	~~PH~~	~~PL~~	~~5H~~	~~M L S 3 9 0 0~~	~~M~~
		W: XLS JA in FRS.												
.005	TR	══	243	D2	S	9			AH	PH	PF	5H	I S S S 8 0 0	M
		C			~~S~~	~~9~~	~~QZ~~	~~BRAQ~~	~~3H~~	~~PH~~	~~VF~~	~~6H~~	~~M S M S 9 0 0~~	~~F~~
		W: BXW - F(-JA												
.005	TR.	══	259	D2	S	9			6H	4H	VF	5H	I L K S 8 2 0	F
		C			~~S~~	~~9~~	~~QZ~~	~~BRX~~	~~3H~~	~~PH~~	~~H7~~	~~5H~~	~~I L 3 9 0 0~~	~~F~~
.005	TR	══	273	D2C	S	9			6H	AH	HE	5H	I L S 7 0 3	M

DRILL HOLE GEOLOGIC LOG

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R21

CW&G FORM 71-

DIP AZIM. TYPE OF HOLE: DDH [ ] RDH [✓] PDH [ ]

MINERALIZATION PERCENT BY: (A) [✓] OR (B) [ ] SCALE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS_2

Cu	MoS_2	Contacts and principal zones	Bottom of interval described	Frac densities	Type modifier	Value	Accessory mineral(s)	Rock type	Quartz (QZ)	Sericite (MU)	Other (TΦ / HE)	Principal facies	Limonites	Limonite intensity
.005	TR	CAP	287	D.2	S	9	QZ	BRXX	6H	PH	BF	5H	I L L 5 8 0 2	M
.010	TR	═══	301	D.2	S	9			AH	AH	PF	5H	I L 5 9 0 0	F
.005	TR	═══	316	D.2	S	9			6H	4H	VL	5H	I S 5 8 0 2	F
.010	TR	═══	331	D.3	S	9			6H	AH		5H	L 5 5 7 0 3	F
.010	TR	═══	345	D.3	S	9			6H	4H	P4	5H	I L 5 6 7 0 9	F
.010	TR	═══	359	D.2	S	9			4H	1A	PF	5H	I S M 5 9 0 9	F

Coarse / Heavies / Water / Float / Other remarks & comments (rows C, H, W):

- Above 287: ~~S 9 QZ BRA3ZA PH PL 6H IL 3900 A~~
- 287–301 (C): ~~S 9 QZ BRA3ZA PH PF 6H IL 3900 A~~
- 301–316 (C): ~~S 9 QZ BR/BRA PH PL H> 6H IL 3900 M~~
- 316–331 (C): ~~S 9 QZ BRA3ZH PA H> 5A IL 3900 L D1~~
- 316–331 (W): PY encapsuled QZ.
- 331–345 (C): ~~S 9 QZ BRA3ZA PH H> 5H IL 3900 F~~
- 345–359 (C): ~~S 9 QZ BRA3ZH PH PF H> 6H IL 3900 A D1~~
- 345–359 (W): PY-L ; MΦ-H QZ

CW BG — CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R21

DIP AZIM. TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CORE

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS — Or Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC. DENSITIES — ∠ TO AXIS OF CORE: <30° | 30-60° | >60°

Fractures/foot | %Fracs Altered or Min. | Fractures/foot | %Fracs Altered or Min. | Fractures/foot | %Fracs Altered or Min.

or RDH/PDH CUTTINGS: Large fragment diameter in mm | Percent Coarse | Weight per foot | GRND CONDN: Values per foot | Count % Swelling

HOST ROCK

TYPE MODIFIER — Lighter than normal, N, Darker than normal; Alphabetic colour of Host Rock; Value 1 to 9 i.e. Black, 9 = White; Alphabetic colour of Fines

Or Use Rock Colour Chart and Munsell System

ACCESSORY MINERAL(S) | TEXTURE | GRAIN SIZE | ROCK TYPE — USE 4-LETTER CODE

ALTERATION ASSEMBLAGES

	QUARTZ QZ	K-SPAR KF	BIOTITE BI	SERICITE MU	PYRITE PY	CLAYS CY	CHLORITE CL	EPIDOTE EP	CARBONATES CB	OTHER TΦ	OTHER HE
	MODE OF OCCURRENCE	MODE / AMOUNT	MODE / AMOUNT	MODE / AMOUNT	MODE / AMOUNT	MODE / AMOUNT	MODE / AMOUNT	MODE / AMOUNT	MODE / AMOUNT	Use 2-letter code at each interval required, or as headings in spaces above	
										MODE / AMT.	MODE / AMT.

PRINCIPAL FACIES | INTENSITY

LIMONITES

TYPE Indigenous, Fringe or Exotic | CAVITIES | FRACTURE VOIDS | GANGUE REACTIVITY | MINERALS CONTROLLING COLOUR: % JAROSITE | % GOETHITE | % HEMATITE | % — Or Use Rock Colour Chart and Munsell System | LIMONITE INTENSITY

MINERALIZATION — PERCENT BY: (A) ☑ OR (B) ☐ SCALE

	PYRITE	CHALCOPYRITE	MOLYBDENITE	CHALCOCITE ON GANGUE	CHALCOCITE	OTHER	OTHER
	MODE / AMOUNT	MODE / AMOUNT	MODE / AMOUNT	MODE / AMOUNT	MODE / AMOUNT		

TOTAL FRAC. WIDTH — per ... m, in tenths of feet, or ...

COARSE | HEAVIES | WATER FLOAT | OTHER REMARKS & COMMENTS

VISUAL ESTIMATES — ACTUAL ASSAYS

.015 | .004 CAP

374 D4 S 19 02 BGXX PH PH PF 5H

S ... PF 6H IMM 3000 A01 D

C

H

W PY 2-3%

1 1

CC: CP/PY = 1/20

VISUAL ACTUAL

.130 | .006 CAP

389 D6 S 17 6H WM PF 5H IMMS 000 N D5T

S ... P PY 5H 75 D2 D2

C

H

W CV common - no CP seen - CC scalp and scattered

*% CC on PY

CC continuation of CP

CC: CP/PY = 1/10

VISUAL ACTUAL

.395 | .008 S.U.P.

403 D6 S 16 6H AW 5H N D5T D1 D1

S ... PH PA 5H D1 D2

1 D1 D2

C

H

W CP not seen - probably completely replaced by CC & CV

CC completely replacing CP

VISUAL ACTUAL

.610 | .020 S.U.P.

417 D3 S 16 6H KW 5H N D5T D1 D1

S ... 3H 3H PF 6H 75 D1 D2

5 1 2

C

H

W Fine specks CC completely replacing CP? rare larger grain CC encapsuled CP High PY - PY halo? CV common

VISUAL ACTUAL

.515 | .004 S.U.P.

432 D3 S 16 PF PW 5H N D5 D1 CV

S ... 3H 3H 5H 4.5 D2

5 2 1

C

H

W Fine CP completely replaced by CC - rare CP encapsuled. CC CP in stringer QZ - PY V

VISUAL ACTUAL

.490 | .002 S.U.P.

447 D3 S 16 PW PW 5H N D5 D1

DRILL HOLE GEOLOGIC LOG

CW&G — CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R21

PAGE 6 OF 8

CW&G FORM 71-02

DIP — AZIM. — TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE

OTHER: TP, HE

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

Cu (actual)	MoS_2 (actual)	Contacts and principal zones	Bottom of interval described	Frac. densities (14–16)	Type modifier (17)	Colour (19–21)	Accessory mineral(s) (22–23)	Rock type (26–29)	Quartz QZ (30–31)	Sericite MU (36–37)	Other TP (48–49)	Principal facies (52–53)	Limonite intensity (62)	Pyrite (63–64)	Chalcopyrite (65–66)	(69–70)	(71–72)
.305	.012	S.U.P.	462	D.3	S	6	QZ	BRXX	6H	AH		5H	N	>5	D1	D2	
.530	.008		477	D.3	S	6			PH	PH	VL	5H	N	D5		D2	
.475	.018		491	D4	S	6			6H	AH		5H	N	>5		>2	
.485	.010		505	D4	S	6			PH	PH		5H	N	>5		>2	
.820	.018		519	D.3	S	6			PH	PH		5H	N	D5		D2	
.425	.010		534	D.4	S	7			PH	PH		5H	N	D5	D1	D2	D1

Struck-through entry lines and other remarks / comments by interval:

to 462:
C: ~~S 1 QZ BRAG 3H PH3A 5H >4 D1 D2~~
H: 2.
W / Remarks: CP : CC in cracks at edge of QZ-MB-PY veinlets - poorly defined. PY 0.5-1mm ; CC on PY .2-.5mm. Fine CP → CC complete.

to 477:
C: ~~S QZ BRAG 3H PH3H D1 5H >5 D3~~
H: 3
W / Remarks: No CP with CC [illegible] seen ; CV often seen. CPY rim CC - Fine complete CC

to 491:
C: ~~S QZ BRAG 3H PH3A <4 D1 D1 D3~~
H: 1 3
W / Remarks: CV common.

to 505:
C: ~~S QZ B[illegible] 3A PH3A 5H <4 D1 D3~~
H: 3
W / Remarks: No CC or CPY seen

to 519:
C: ~~S QZ B[illegible] 3A PH3H 5H <4 D1 D1 D3~~
H: 1 2 2
W / Remarks: Coarse CPY in PY veinlet thin film CC : CV. CP encapsulated QZ.

to 534:
C: ~~S 7 QZ BRAG 3A PH3A 5H >4 D1 D1 D2~~
H: 1 1 2
W / Remarks: Very fine 'pepper' CC.

CW BG "CHAPMAN, WOOD AND GRISWOLD LTD. COMPANY:

DRILL HOLE GEOLOGIC LOG

PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R21

CW B G FORM 71-C BY BT FOR PHR ANGIE

DIP AZIM

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CORE

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC. DENSITIES — ∠ TO AXIS OF CORE: <30° | 30-60° | >60°
- Fractures/foot
- %Frcs Altered or Min.
- or RDH/PDH CUTTINGS: Large fragment diameter in mm; Percent Coarse; Grnd Cond'n: Fractures per foot; Caving & Swelling

HOST ROCK
- TYPE MODIFIER (Lighter than normal, Darker than normal, Alphabetic colour of Host Rock; Value 1 to 9 1=Black, 9=White; Alphabetic colour of Fines) — Or Use Rock Colour Chart and Munsell System
- ACCESSORY MINERAL(S)
- TEXTURE
- GRAIN SIZE
- ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES
- QUARTZ QZ — MODE OF OCCURRENCE, AMOUNT
- K-SPAR KF — MODE, AMOUNT
- BIOTITE BI — MODE, AMOUNT
- SERICITE MU — MODE, AMOUNT
- PYRITE PY — MODE, AMOUNT
- CLAYS CY — MODE, AMOUNT
- CHLORITE CL — MODE, AMOUNT
- EPIDOTE EP — MODE, AMOUNT
- CARBONATES CB — MODE, AMOUNT
- OTHER T⊕ — MODE, AMT.
- OTHER HE — MODE, AMT.
- PRINCIPAL FACIES
- INTENSITY

Use 2-letter code at each interval required, or as headings in spaces above

LIMONITES
- TYPE Indigenous, Fringe or Exotic
- CAVITIES
- FRACTURE VOIDS
- GANGUE REACTIVITY
- MINERALS CONTROLLING COLOUR: % JAROSITE, % GOETHITE, % HEMATITE, % — Or Use Rock Colour Chart and Munsell System
- LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE
- PYRITE — MODE, AMOUNT
- CHALCOPYRITE — MODE, AMOUNT
- MOLYBDENITE — MODE, AMOUNT
- CHALCOCITE ON GANGUE — MODE, AMOUNT
- CHALCOCITE — MODE, AMOUNT
- OTHER
- OTHER

TOTAL FRAC WIDTH per 10ft or ____ in tenths of feet, or ____

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS

COARSE | HEAVIES | WATER FLOAT | OTHER REMARKS & COMMENTS

VISUAL ESTIMATES — ACTUAL ASSAYS

S 7 QZ PPA 6 3H PH 3H DL 5H — 75 D1 1 D2 2

No CP seen - all alt to cc.

.340 | .002 | SUP | 548 | D3 | S 1 QZ BCXX N A H 5H IN — 75 D1 72 — D3 D1 D2 1 2

S QZ PPA 9PM PH RM DL 5H

.190 | .010 | 564 | D3 | S 1 6H A H 5H IN — 75 D1 51 — 73 D1 D1 2 2

S AB 1 1 9PF PA 3M DL ? 6A

.235 | TR | 578 | D3 | S 1 6H A H H E 5H IN — 75 D1 D1 — 73 D1 D1 02 1 3

S QZ BPA 5PM PA 3M 6A

Hard aphanitic - soft alt PF occ. mod. in occ. E

.375 | .016 | 592 | D4 | S 1 6H PF A H PL H E 7F IN — 75 D1 D1 D1 — 73 D1 1 2

S QZ EPA 9ZH PA 3M DL 6A

Fine CC as CP blnm. bowlder.

.315 | .014 | 606 | D2 | S 1 PH A H 5H IN — 75 D2 D1 D1 — 73 D1 1 2 2

S QZ BPA 9 PA 3M

Faint subhedral PF and occ HM as ET - CP in fnt CC mod to occ common

.235 | .014 | 620 | D3 | S 1 6H A H 5H IN — 75 D1 D1 D1

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

CW&G FORM

DIP / AZIM. / TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu. | MoS_2

Actual Assays Cu	Actual Assays MoS_2	Contacts and Principal Zones	Bottom of Interval Described	Frac. Densities	Host Rock (type modifier / colour / rock type)	Alteration Assemblages	Principal Facies	Mineralization
.240	.010	SUP	635	D3	5 | 6 | Q2 | BRXX	6H (QZ); 4H (MU)	5H	11 #4 D2; #1 D1
.200	.046	SUP	648	D8	5 | 7 | Q2 | BRXX	4H (QZ); 4H (MU)	5H	11 #4 D1; #1 D1

Cuttings remarks for the 635 interval (coarse/heavies lines):

~~5 ... Q2 ... B... 3 M ... PAZM~~ — mineralization: <3 D1 D2 / 1 2

Cuttings remarks for the 648 interval (C/H/W lines):

~~5 7 Q2 BRXXHA~~ — PHPA — mineralization: D3 D1 D2, ? / 1 2

END

Remarks: (1) X/¢ MG.
(2) N¢ CB
(3) Excellent Sago BRXX

Column headings: Structure and/or Alteration; Zone & Host Rock; Contacts and Principal Zones (If rotary or percussion hole) comments on Coarse, Heavies & Water float; Bottom of Interval Described; Frac. Densities ∠ to axis of core <30° 30-60° >60° (Fractures/foot, % Fracs Altered or Min) or RDH/PDH Cuttings (Large fragment diameter in mm, Percent Coarse, Wet/Moist or Dry, Minutes per foot, Caving & Swelling); Host Rock (Type Modifier, Lighter than normal / Darker than normal, Alphabetic colour of Host Rock, Value 1 to 9, Alphabetic colour of Fines, or use Rock Colour Chart and Munsell System, Accessory Mineral(s), Texture, Grain Size, Rock Type use 4-letter code); Alteration Assemblages (Quartz QZ, K-Spar KF, Biotite BI, Sericite MU, Pyrite PY, Clays CY, Chlorite CL, Epidote EP, Carbonates CB, Other, Other — mode of occurrence and amount; use 2-letter code at each interval required, or as headings in spaces above); Principal Facies; Intensity; Limonites (Type Indigenous, Fringe or Exotic, Cavities, Fracture Voids, Gangue Reactivity, Minerals Controlling Colour % Jarosite % Goethite % Hematite %, or use Rock Colour Chart and Munsell System, Limonite Intensity); Mineralization Percent by (A) or (B) Scale (Pyrite, Chalcopyrite, Molybdenite, Chalcocite on Gangue, Chalcocite, Other, Other — mode and amount); Total Frac Width.

HOLE NUMBER R 26

DRILL HOLE GEOLOGIC LOG

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: BRAMEDA RESOURCES LTD. PROPERTY: CASINO LOGGED BY: C.G. DATE: FEB. 1971

CW&G FORM

DIP ___ AZIM ___

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float | BOTTOM OF INTERVAL DESCRIBED | FRAC. DENSITIES (∠ TO AXIS OF CORE < 30°, 30-60°, > 60°: Fractures/foot, Altered %Fracs or Mtn; or RDH/PDH CUTTINGS: Large fragment diameter in mm, Percent Coarse, Wet/Moist or Dry, GRND COND'N: Minutes per foot, Caving & Swelling) | HOST ROCK (Type Modifier; Lighter than normal L, Darker than normal D; 'Alphabetic' colour of Host Rock; Value 1 to 9, 1=Black, 9=White; 'Alphabetic' colour of Fines; Or Use Rock Colour Chart and Munsell System; Accessory Mineral(s); Texture; Grain Size; ROCK TYPE USE 4-LETTER CODE) | ALTERATION ASSEMBLAGES (Quartz QZ: Mode of Occurrence, Amount; K-Spar KF; Biotite BI; Sericite MU; Pyrite PY; Clays CY; Chlorite CL; Epidote EP; Carbonates CB; Other TØ; Other H#: Use 2-letter code at each interval required, or as headings in spaces above; Principal Facies; Intensity) | LIMONITES (Type: Indigenous, Fringe or Exotic; Cavities; Fracture Voids; Gangue Reactivity; Minerals Controlling Colour: % Jarosite, % Goethite, % Hematite, %; Or Use Rock Colour Chart and Munsell System; Limonite Intensity) | MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE (Pyrite, Chalcopyrite, Molybdenite, Chalcocite on Gangue, Chalcocite: Mode, Amount; Other; Other) | TOTAL FRAC WIDTH per foot or in terms of frac.

Columns 1–79. Sub-rows per interval: COARSE (C), HEAVIES (H), WATER FLOAT (W), OTHER REMARKS & COMMENTS; VISUAL ESTIMATES / ACTUAL ASSAYS.

Cu (actual)	MoS_2 (actual)	Contacts / zones	Bottom of interval	Frac. / cuttings	Host rock	Rock type	Alteration assemblages	Principal facies / intensity	Limonites	Mineralization
		ØVB	24	D.						
.010	TR	CAP	39	D.4	9	5GRNT	4M; 4A; PF; PL	(6M?) 5M	ILSS900 M	
.005	TR	CAP	54	D.3	9		PA	5M	ILSS900 M	
.010	TR	CAP	69	D.4	9		PL	5M	ISSS900 M	
.005	TR	CAP	84	D.2	9		PM	5M	ISSS900 M	
[illegible]	[illegible]	CAP	98	D.2	9	5GRNT	6A; 4A; PL; VA	5A	ILSS900 M	

CW &G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R26

COMPANY: PROPERTY: LOGGED BY: DATE: PAGE 2 OF 6

CW & G FORM 71

DIP AZIM. TYPE OF HOLE: DDH RDH PDH

Actual assays		Contacts and principal zones	Bottom of interval described	Frac. densities	Host rock colour	Rock type	Quartz QZ	Sericite MU	Clays CY	Other	Principal facies / intensity	Limonites	Limonite intensity	Pyrite
.010	TR	CAP	1.13	D3	9	5GRNT	6M	4M	PA	PL	KA	1SSK 900	N	
.015	TR	CAP	1.28	D3	9	5GRNT						1SSK 900	N	
.015	TR	CAP	1.44	D5	9	5GRNT	6M	4M	PA	4E	5F	1LLK 900	N	<1
.015	TR	CAP	1.58	D9	9	5GRNT	4M	4M	PA	PL	5F	5MS 900	N	
.020	TR	CAP	1.73	D4	8	5GRNT	4A	4A	PA	PL	5F	1SSS 909	N	D1
.020	TR	CAP	1.88	D4	9	5GRNT	4M	4M	PA	PA	5F	1SMS 820	N	

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R26

PAGE 3 OF 6

CW&G FORM

DIP AZIM — TYPE OF HOLE: DDH ☐ RDH ☐ PDH ☐

Columns: STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK | ESTIMATES & ASSAYS (ELEMENTS OR MINERALS) | CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float (1–6) | BOTTOM OF INTERVAL DESCRIBED (7–10) | FRAC DENSITIES ∠ TO AXIS OF CORE <30°, 30–60°, >60° (Fractures/foot, % Fracs Altered or Min) or RDH/PDH CUTTINGS (Large fragment diameter in mm, Percent Coarse, Wet Moist or Dry, Minutes per foot, Caving & Swelling) (11–16) | HOST ROCK: Type Modifier, Lighter than normal/Darker than normal, Alphabetic colour of host rock, Value 1 to 9, Alphabetic colour of fines (Or Use Rock Colour Chart and Munsell System), Accessory Mineral(s), Texture, Grain Size, ROCK TYPE USE 4-LETTER CODE (17–29) | ALTERATION ASSEMBLAGES: Quartz QZ, K-Spar KF, Biotite BI, Sericite MU, Pyrite PY, Clays CY, Chlorite CL, Epidote EP, Carbonates CB, Other TO, Other MX (Mode/Amount; Use 2-letter code at each interval required, or as headings in spaces above), Principal Facies, Intensity (30–53) | LIMONITES: Type (Indigenous, Fringe or Exotic), Cavities, Fracture Voids, Gangue Reactivity, Minerals Controlling Colour (% Jarosite, % Goethite, % Hematite, %) (Or Use Rock Colour Chart and Munsell System), Limonite Intensity (54–62) | MINERALIZATION PERCENT BY: (A) ☐ OR (B) ☐ SCALE: Pyrite, Chalcopyrite, Molybdenite, Chalcocite on Gangue, Chalcocite (Mode/Amount), Other, Other (63–76) | TOTAL FRAC WIDTH per 10 ft or in tenths of feet (77–78)

Actual assays	Contacts / comments	Bottom of interval	Frac densities	Host rock value	Rock type	Alteration	Principal facies / intensity	Limonites	Limonite intensity	Mineralization
	CNT	196								
.010 TR	CNT	203	D3	9	RYLT	PM, PA, PF	SM	HL S 9 D 9	N	
.015 TR	CAP	217	D4	8	KGRNT	6M, AM, DF	SF	IL MS 9 0 0	N	
.015 TR	CAP	231	D2	9				IL MS 9 d d	N	
.015 TR	CAP	246	D3	8	F			IL MS 9 2 d	N	D1
.020 TR	CAP	261	D2	9				IL MS 9 1 2	N	D1
	REM	RYLT CHIP?								
.015 .003	CAP	275	D3	9				IL S 9 9 d	F	D2

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R26

COMPANY: PROPERTY: LOGGED BY: DATE:

CW&G FORM

Visual estimates / Actual assays		Contacts and principal zones	Bottom of interval described	Frac densities	Host rock (modifier / colour)	Accessory mineral(s)	Rock type	Quartz QZ	Sericite MU	Pyrite PY	Principal facies / intensity	Limonites	Mineralization (Pyrite)
		CNT	285										
.015	.005	CAP	290	D3	S 9	QZ	BRXX					I L M 5 9 0 9 1 F	
		CNT	295										
.015	.007	CAP	306	D3	8		5 GRNT	6M	4M	PF	5F	I L S 5 9 0 0 1 F	#2
.015	.010	CAP	326	D2	7		5 GRNT	6A	4M	PF	6F	1 L M 5 9 0 0 1	<3
.020	.005	CAP	336	D3	S		5 GRNT	6M	4F	PM	3M	1 L L 5 9 0 0 1	#2
.025	.015	CAP	351	D2	S		5 GRNT	6M	4F	PM	3M	1 E M 5 9 0 0 1	#3
		CNT	360										
.035	.005	CAP	366	D2	S 1	QZ	BRXX	6M	4M		5M	1 S L 5 2 2 6 L	<3

DRILL HOLE GEOLOGIC LOG

CW&G — CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER: R26

Actual assays		Contacts and principal zones	Bottom of interval described	Frac. densities	Type modifier	Host rock colour	Accessory mineral(s)	Rock type	Quartz (mode/amount)	Sericite (mode/amount)	Other	Principal facies	Limonites (54–61)	Limonite intensity
.165	.014	SUP	380	D2	S	7	QZ	BRXX	6M	4M		5M	I S L S Z Z 6	L
.175	.014	SUP	395	M2	S	6	QZ	BRXX	4M	4M		5M		N
.330	.010	SUP	410	W2C	S	6	QZ	BRXX	4M	4M		5M	I S S S 5 0 5	L
.350	.019	SUP	425	W3	S	6	QZ	BRXX	6M	4M	PL	5M	I S S S 1 3 6	L
.315	.020	SUP	439	W4	S	6	QZ	BRXX	6M PL	4M		5M		L
.455	.009	SUP	453	W3	S	6	QZ	BRXX	6M	4M		5M		N

Bottom of interval	Pyrite (mode/amount)	Chalcopyrite (mode/amount)	Molybdenite (mode/amount)	Chalcocite on gangue (mode/amount)	Chalcocite (mode/amount)
380	K3	V1		K1	V1
395	K3	D1		K1	D1
410	K3	D1	D1	K1	D1
425	K3	D1		K1	D1
439	K3	D1		K1	D1
453	K3	D1		K1	D1

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R26

PAGE 6 OF 6

CW&G FORM BY BT FOR FIRE

DIP AZIM

TYPE OF HOLE: DDH RDH PDH

CORE

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC DENSITIES < 30° TO AXIS OF CORE | 30-60° | > 60°

Fractures/foot | % Fracs Altered or Min. | Fractures/foot | % Fracs Altered or Min. | Fractures/foot | % Fracs Altered or Min.

or RDH/PDH CUTTINGS: Large fragment diameter in mm | Percent Coarse | Weight Most or Dry | GRND CONDTN Minutes per foot Caving & Swelling

HOST ROCK: TYPE MODIFIER (Lighter than normal, ly, Darker than normal, dy, Alphabetic colour of Host Rock; value 1 to 3, 1 = Black, 9 = White, Alphabetic colour of Fines) | ACCESSORY MINERAL(S) | TEXTURE | GRAIN SIZE | ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ | K-SPAR KF | BIOTITE BI | SERICITE MU | PYRITE PY | CLAYS CY | CHLORITE CL | EPIDOTE EP | CARBONATES CB | OTHER TO | OTHER HY — MODE OF OCCURRENCE, AMOUNT; Use 2-letter code at each interval required, or as headings in spaces above

PRINCIPAL FACIES | INTENSITY

LIMONITES: TYPE Indigenous, Fringe or Exotic | CAVITIES | FRACTURE VOIDS | GANGUE REACTIVITY | MINERALS CONTROLLING COLOUR % JAROSITE, % GOETHITE, % HEMATITE, % (Or Use Rock Colour Chart and Munsell System) | LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☐ OR (B) ☐ SCALE: PYRITE, CHALCOPYRITE, MOLYBDENITE, CHALCOCITE ON GANGUE, CHALCOCITE, OTHER, OTHER — MODE, AMOUNT

TOTAL FRAC % ETH

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK | ESTIMATES & ASSAYS ELEMENTS OR MINERALS

1 2 3 4 5 6 | 7 8 9 10 | 11 12 | 13 | 14 | 15 16 | 17 | 18 19 20 21 | 22 23 | 24 | 25 | 26 27 28 29 | 30 31 | 32 33 | 34 35 | 36 37 | 38 39 | 40 41 | 42 43 | 44 45 | 46 47 | 48 49 | 50 51 | 52 53 | 54 55 | 56 | 57 | 58 59 60 61 | 62 | 63 64 | 65 66 | 67 68 | 69 70 | 71 72 | 73 74 75 76 | 77 78 | 79

COARSE → HEAVIES → WATER FLOAT → OTHER REMARKS & COMMENTS

VISUAL ESTIMATES

ACTUAL ASSAYS

.495 .009 SUP 5 467 W3 5 6 QZ BRXX 6A AH SH N #4D1 #2D1

C H W

VISUAL

ACTUAL .540 .009 SUP 10 482 W3 5 6

C H

REM W STRONG CC

VISUAL

ACTUAL .660 .007 SUP 15 490 W3 5 6

ENDS

H W

REMARKS: ① NP MG ② NP CB

VISUAL

ACTUAL 20

C H W

VISUAL

ACTUAL 25

C H W

VISUAL

ACTUAL 30

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD. (CWGG)

COMPANY: BRAMEDA RESOURCES LTD. PROPERTY: CASINO LOGGED BY: CG DATE: FEB. 1971

HOLE NUMBER: R28 PAGE 1 OF 4

CW&G FORM

DIP ____ AZIM. ____ TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu MoS2

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE

Visual (Cu / MoS2)	Actual (Cu / MoS2)	Contacts and Principal Zones	Bottom of Interval Described	Frac. Densities / RDH Cuttings	Host Rock (Type Modifier / Colour / Accessory Mineral / Rock Type)	Alteration: Quartz QZ	Alteration: Sericite MU	Alteration: Clays CY	Alteration: Carbonates CB	Principal Facies	Limonites	Mineralization: Pyrite	Mineralization: Molybdenite	Mineralization: Chalcocite on Gangue	Mineralization: Chalcocite
		OVB	24	D											
	.050 / .003	CAP	39	D/C	M 6 BI QZDR	6M	4M			5M	I L L 5 9 1 10 F		V1		
	.110 / .003	CAP	54	D1	M 6	6A	4A			5A	I M L 5 8 2 10 F				
	.160 / .006	SUP	69	D1	M 7	6M	4A			5F	I M L 5 7 2 1 1 F	D2		D1	
	.150 / TR	SUP	84	W1	M 6	PA	PA	PA	PF	3M	I L L 5 2 7 1 1 A	D3		D1	
	.145 / TR	HYP	98	W2	M 7	6M	4M	PA	3M	5F	I 1 5 0 8 2 1 L	3 D1		D1	D1

CW &G — CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R28

COMPANY: PROPERTY: LOGGED BY: DATE:

PAGE 2 OF 4

CW&G FORM

DIP ___ AZIM. ___

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CNT — COARSE / HEAVIES / WATER FLOAT / OTHER REMARKS & COMMENTS — 1.05

Actual Assays (1)	Actual Assays (2)	Contacts and Principal Zones	Bottom of Interval Described	Frac. Densities	Host Rock: Colour	Host Rock: Grain Size / Rock Type	QZ	KF	BI	MU	PY	CY	CL	EP	CB	Other (TC)	Other (11X)	Principal Facies	Limonite Intensity	Pyrite	Chalcopyrite	Molybdenite	Other
.130	.017	HYP	1.13	W3	8	3 APLT	6A			4A					PF		HE (VEN)	5M	N	D3	D1	V1	
.080	TR	HYP	1.29	W5	8		PF			PM								5M	N	#3		D1	
.075	TR	HYP	1.44	W2	8		4A			4M								5M	N	#3			
.105	.002	HYP	1.58	W2	8		4M			4M								5M	N	#3	D1		ZE (red ?)
.160	.002	HYP	1.73	W2	8		4M			4M		8L						5M	N	#3			
.180	.005	HYP	1.88	W4	8		6M			4M					8L			5M	N	#3	V1		

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R28

PAGE 3 OF 4

CW BG FORM 7

DIP AZIM.

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CORE

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float

ESTIMATES & ASSAYS ELEMENTS OR MINERALS

BOTTOM OF INTERVAL DESCRIBED

FRAC. DENSITIES (< TO AXIS OF CORE: < 30° | 30-60° | > 60°)

Fractures/foot | Altered % Fracs or Min. | Fractures/foot | Altered % Fracs or Min. | Fractures/foot | Altered % Fracs or Min.

OR RDH/PDH CUTTINGS: Large fragment size in mm | Percent Coarse | GRND COND'N Wet/Moist or Dry | Minutes per foot | Caving & Swelling

HOST ROCK: TYPE MODIFIER (Lighter than normal, N, Darker than normal, Alphabetic colour of Pinkish Reds, Yellow, Buff, White, L-Black, Alphabetic colour of Greys) | ACCESSORY MINERAL(S) | TEXTURE | GRAIN SIZE | ROCK TYPE USE 4-LETTER CODE (Or Use Rock Colour Chart and Munsell System)

ALTERATION ASSEMBLAGES: QUARTZ QZ | K-SPAR KF | BIOTITE BI | SERICITE MU | PYRITE PY | CLAYS CY | CHLORITE CL | EPIDOTE EP | CARBONATES CB | OTHER TP | OTHER HY — MODE OF OCCURRENCE, AMOUNT; Use 2-letter code at each interval required, or as headings in spaces above

PRINCIPAL FACIES | INTENSITY

LIMONITES: TYPE (Indigenous, Fringe or Exotic) | CAVITIES | FRACTURE VOIDS | GANGUE REACTIVITY | MINERALS CONTROLLING COLOUR (% JAROSITE, % GOETHITE, % HEMATITE, %) | LIMONITE INTENSITY (Or Use Rock Colour Chart and Munsell System)

MINERALIZATION PERCENT BY: (A) ☐ OR (B) ☐ SCALE: PYRITE, CHALCOPYRITE, MOLYBDENITE, CHALCOCITE ON GANGUE, CHALCOCITE, OTHER, OTHER — MODE, AMOUNT

TOTAL FRAC WIDTH

COARSE | HEAVIES | WATER FLOAT | OTHER REMARKS & COMMENTS

VISUAL ESTIMATES / ACTUAL ASSAYS		BOTTOM OF INTERVAL	FRAC DENSITIES	HOST ROCK	ALTERATION ASSEMBLAGES	LIMONITES	MINERALIZATION
.170 / .002	HyP	203	W2	7H 3APLT	6N PE AM		MG 7F		N<4#1	
C										
H										
W										
VISUAL / ACTUAL .175 / TR	HyP	218	W3	8I	6N	H M PE	5F		N#3D1	
C										
H										
W										
VISUAL / ACTUAL .100 / .002	HyP	232	W3	BI	4F	H M	5M		N#3D1	
C										
H	CNT	235								
W										
VISUAL / ACTUAL .165 / .002	HyP	247	W2	M 5 BI	Q2DR PL	PL PL PL	PM PL	PA	3M		N#3D1	
C										
H										
W										
VISUAL / ACTUAL .160 / TR	HyP	262	W2	M 6I		PA	1 G 3M		N#3D1	
C										
H										
W										
VISUAL / ACTUAL .305 / .002	SuP	276	W1	M 5I	3L	PL PL PL	PM PL	PA	3M		N	D3 V1	

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R28

COMPANY: PROPERTY: LOGGED BY: DATE:

CW&G FORM

DIP AZIM. TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

Assays		Contacts and principal zones	Bottom of interval described (7-10)	Frac densities (11-16)	Host rock: type modifier (17)	(18-21)	Accessory mineral(s) (22-23)	Rock type (26-29)	Quartz QZ (30-31)	Biotite BI (34-35)	Sericite MU (36-37)	Clays CY (40-41)	Chlorite CL (42-43)	Carbonates CB (46-47)	Other (50-51)	Principal facies / Intensity (52-53)	Limonite intensity (62)	Pyrite (63-64)	Chalcopyrite (65-66)	Chalcocite on gangue / Chalcocite (69-72)	Other (73-74)
.260	.002	SUP	292	W2	M	S	BI	QZDR	PL	? PL	PL	PM	PL	PA		3M	N	#3	DI	#1 V1	
.195	.002	HYP	309	W3	M	S	—	—	PL	? PL	PH	PM	AL	PA	NG	3M	N	#3			GY

END

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER: P29

COMPANY: BRAMEDA RESOURCES LTD. PROPERTY: CASINO LOGGED BY: CG DATE: FEB 1971 PAGE 1 OF 6

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

OTHER: TØ | HX

Visual Cu	Visual MoS_2	Actual Cu	Actual MoS_2	Contacts and principal zones	Bottom of interval described	Frac. densities / RDH cuttings	Host rock type modifier / colour	Texture / grain size / rock type	Quartz (QZ)	Biotite (BI)	Sericite (MU)	Clays (CY)	Principal facies / intensity	Limonites	Mineralization / remarks
				ØVB	23	D									
		.245	.002	ØXD	38	D4	7	3 QPLT	PL	PL	PF	PA	3M	I S S 2 A D 4 F (Mw ØXIDE)	
		.195	.002	ØXD	53	D4	7	3 QPLT	PL	PM	PF	PA	3M	2 4 D 4 F	
		.160	.005	ØXD	68	D2	1	3 QPLT	6F		AF	PM	3F	2 8 0 F	D/
		.245	.006	ØXD	83	D2	7	3 QPLT	6F	PL	4L	PH	3A	7 S L S 2 8 0 F	
		.120	.006	ØXD	97	D2	R	3 QPLT	6F		AL	QH	3A	7 S S S 2 8 0 L	

DRILL HOLE GEOLOGIC LOG

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R29

C.W.&G. FORM 71-02

DIP AZIM. TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

Estimates & Assays (Visual / Actual)		Contacts and Principal Zones (1–6)	Bottom of Interval Described (7–10)	Frac. Densities (11–16)	Host Rock (17–29)	Alteration Assemblages (30–53)	Limonites (54–62)	Mineralization (63–72)	Other (73–76)
.180	.008	ØXD	1.12	D2	7 3APLT	6F PL 44 PM 3M	ISS 5280 L6?		
.220	.021	ØXD	1.27	D1	M 6 BI 3Q2DR	3L PMPY PH 3H	ISS 5280 L		GY MC
		REM	NO VISIBLE CU 23-127			7 MM?			
.290	.006	ØXD	1.42	D1	M 6 BI 3Q2DR	PMPY PH 3H	ISS 5280 L		GN
		CNT	150						
		REM	NO VISIBLE CU 142-156						
.225	.006	ØXD	1.56	D2	8 3APLT?	4A AF PA 3M	ILL 5280 F		
.115	.006	ØXD	1.71	W4	8		F	DI	M#
.085	.010	ØXD	1.86	W4	N 3APLT	6A AF PA 3M	ILL 5280 A	DI	TE

DRILL HOLE GEOLOGIC LOG

CW&G — CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R29

PAGE 3 OF 6

DIP — AZIM. — TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

Visual	Actual assay	Contacts and principal zones	Bottom of interval described	Frac. densities	Type modifier	Colour	Accessory mineral(s)	Rock type	Alteration (QZ / BI / MU / CY / other)	Principal facies / intensity	Limonites	Mineralization	Other
.110	.013	ØXD	201	W3		8		3 APLT	6A, PA, 4A, PA	3M	1 5 2 5 2 8 0 M	V1	M<CN
.120	.011	ØXD	215	W3		8		3 APLT	6M, 4M, PF	5F	1 5 L 5 2 8 9 M	D1, D1	SMTE ?
.150	.009	ØXD	230	W3		8		3 APLT	4F, 4F, PF	5L	1 L L 5 / 1 9 0 F		M4
.400	.027	SUP	245	W1		B		3 APLT	PF, PF, 4F, PF	3L	1 5 L 5 0 8 2 1 L	D1 D1 D1 D1 D1	MCCV
		CNT	247										
.330	.036	SUP	262	W2	M	6	BI	3 QZDR	6F, PM, 4F, PF	3F	1 L L 5 0 8 2 1 L	<2, <1	MC
.405	.046	SUP	277	W3	M	4	BI	3 QZDR	PL, PL, PM	3M		M<3, V1, <1, V1	

Stable primary?

primary

CW BG — CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R29

CW & G FORM ... BY B.T. FOR P.H. PLAS...

DIP ___ AZIM. ___ CORE

TYPE OF HOLE: DDH ☐ RDH ☐ PDH ☐

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS: On Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC DENSITIES TO AXIS OF CORE: 0-30° / 30-60° / >60° — Fractures/foot, %Fracs Altered or Min. or RDH/PDH CUTTINGS: Large fragment dimension in mm; Percent Coarse; Weight of 10' (Grnd Cond'n); Minutes per foot; Caving & Swelling

HOST ROCK: TYPE MODIFIER (Lighter than normal, by addition of minerals; Alphabetic colour of Host Rock; Value 1 to 9 1=Black, 9=White; Alphabetic colour of Fines); ACCESSORY MINERAL(S); TEXTURE; GRAIN SIZE; ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ; K-SPAR KF; BIOTITE BI; SERICITE MU; PYRITE PY; CLAYS CY; CHLORITE CL; EPIDOTE EP; CARBONATES CB; OTHER; OTHER — MODE OF OCCURRENCE, AMOUNT; Use 2-letter code at each interval required, or as headings in spaces above; PRINCIPAL FACIES; INTENSITY

LIMONITES: TYPE (Indigenous, Fringe or Exotic); CAVITIES; FRACTURE VOIDS; GANGUE REACTIVITY; MINERALS CONTROLLING COLOUR: % JAROSITE, % GOETHITE, % HEMATITE, % (Or Use Rock Colour Chart and Munsell System); LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☐ OR (B) ☐ SCALE: PYRITE, CHALCOPYRITE, MOLYBDENITE, CHALCOCITE ON GANGUE, CHALCOCITE, OTHER, OTHER — MODE, AMOUNT

TOTAL FRAC WIDTH per 10 ft or ___ in terms of feet, or ___

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK | ESTIMATES & ASSAYS — ELEMENTS OR MINERALS | 1 2 3 4 5 6 | 7 8 9 10 | 11 12 | 13 | 14 15 16 | 17 | 18 19 20 21 | 22 23 | 24 | 25 | 26 27 28 29 | 30 31 | 32 33 | 34 35 | 36 37 | 38 39 | 40 41 | 42 43 | 44 45 | 46 47 | 48 49 | 50 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 59 60 61 | 62 | 63 64 | 65 66 | 67 68 | 69 70 | 71 72 | 73 74 | 75 76 | 77 78 | 79 80

COARSE → HEAVIES → WATER → FLOAT → OTHER REMARKS & COMMENTS →

VISUAL ESTIMATES / ACTUAL ASSAYS

REM SOME APLT CHIPS

.375 .044 SUP 5 291 W4 M 6 1

C H W

REM SOME APLT CHIPS ? ?

VISUAL .250 ACTUAL .038 SUP 10 305 W4 M 6 BI H Q2 DR 6M MF EF PL PL 7M N#2 D1 #1 V1

C H W

REM SOME APLT CHIPS. ? ?

VISUAL .295 ACTUAL .048 SUP 15 320 W2 M 6 BI 1 Q2 DR 6F VE PM PA PA 7M N K3 K1 V1

C H W (MIXED BRX?)

VISUAL .290 ACTUAL .034 SUP 20 335 W2 M 6 BI 1 Q2 DR 6M PA PA PA 7E N K3 V1 K1

C H W

VISUAL .505 ACTUAL .034 SUP 25 349 W2 M 6 BI B Q2 DR 6F PM A PA 8M N K3 K1 V1

C H W

VISUAL .200 ACTUAL .038 SUP 30 364 W3 M 6 BI 1 Q2 DR 6F PF PM A F PA 7M N K3 K1 S1 V1

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R29

COMPANY: PROPERTY: LOGGED BY: DATE:

PAGE 5 OF 6

CW&G FORM

TYPE OF HOLE: DDH, RDH ✓, PDH

Estimates & Assays (Visual / Actual)	Contacts and Principal Zones / Comments	Bottom of Interval Described (7-10)	Frac. Densities / Grnd Cond'n (11-16)	Type Modifier (17)	Host Rock Colour (18-21)	Accessory Mineral(s) (22-23)	Texture (24)	Grain Size (25)	Rock Type (26-29)	QZ (30-31)	KF (32-33)	BI (34-35)	MU (36-37)	PY (38-39)	CY (40-41)	CL (42-43)	EP (44-45)	CB (46-47)	Other (48-49)	HX (50-51)	Principal Facies (52)	Intensity (53)	Limonites (54-61)	Limonite Intensity (62)	Pyrite (63-64)	Chalcopyrite (65-66)	Molybdenite (67-68)	Chalcocite on Gangue (69-70)	Chalcocite (71-72)	Other (73-76)	Total Frac Width (77-79)
.145 / .021	SUP	379	w3	M	5	BI		3	QZDR	6F	3F	4F	4L								7	A		N	D3		V	D	V		
	CNT	381																													
.190 / .034	SUP	393	w4		7			3	APLT	3F			PF								4	F		N	D3		V	D			
.175 / .034	SUP	408	w4		7			3	APLT	6A			4F							MG	4	F		N	#3		V	#	V		
.265 / .021	SUP	423	w2		7			3	APLT	6A			4M								4	M		N	#3			#	V		
	CNT	430																													
.260 / .044	SUP	438	w2	M	6	BI		3	QZDR	6F		PM	4F		PM	P4				MG	3	M		N	#3		V	#	V		
.405 / .061	SUP	452	w2	M	6																										

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER: R29

PAGE 6 OF 6

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

Actual Assays		Contacts and Principal Zones	Bottom of Interval Described	Grnd Cond'n	Type Modifier	Colour	Grain Size	Rock Type	QZ	MU (Mode/Amount)	CL	Principal Facies / Intensity	Limonite Intensity	Pyrite	Molybdenite	Chalcocite on Gangue	Chalcocite
.230	.076	SUP	467	W2	M	14											
.170	.036	SUP	482	W2	M	16											
		CNT	484														
.150	.034	SUP	497	W3		8	3	APLT	6M	4F		4A	N	<3	V1	≤1	V1
.160	.061	SUP	512	W2		7	3	APLT	6M	4F	PL	4A		<3	V2	<1	V1
		END															

REMARK (1) NO CB beside MX

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R 3D

COMPANY: BRAMEDA RESOURCES LTD PROPERTY: CASINO LOGGED BY: C G DATE: FEB 1971 PAGE 1 OF 6

CW&G FORM

DIP ___ AZIM ___ TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS_2

Mineralization: PERCENT BY (A) ☑ OR (B) ☐ SCALE

Cu (actual)	MoS_2 (actual)	Contacts and Principal Zones	Bottom of Interval Described	Frac. Densities / RDH cuttings	Host Rock: Type Modifier	Host Rock: Colour / Value	Rock Type (4-letter code)	Alteration: QZ	KF	BI	MU	CY	Other TØ	Other HF	Principal Facies / Intensity	Limonites (cols 54–62)	Other (Mineralization)	Comments
		O/B	23	D														
.125	TR	CAP	38	D.4	S	7 R2	BRXX	6M		PF	AF			HE	7F	1 S S 5 9 1 0 F		REM: P. DRIT CHIP
.245	.002	ØXD	53	D 3	S	7										4 1 0 5 F (NEOTOCITE)	CN	REM: P. DRIT CHIP
.265	TR	ØXD	68	D3	S	7 D2	BRXX	6M	PL	PF	AF		PL	HE	7M	1 S L 5 9 1 0 F	MCGY	
.240	.004	ØXD	82	D3	S	7 D2	BRXX	6M		PF	4F	PL		HE	7F	1 S L 5 7 3 0 F	MCGY	
.285	.002	ØXD	97	D2	S	7 D2	BRXX	6M		PF	AF	PL		H>	7F	1 S L 5 7 3 0 F	M<CNSY	

CW &G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R 30

CW&G FORM

DIP AZIM. TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

OTHER: TO / OTHER: AV

No visible Cu-min.

Actual assays		Contacts and principal zones	Bottom of interval described	Frac. densities / cuttings (13–14)	Type modifier (17)	Colour (20)	Accessory minerals (22–23)	Rock type (26–29)	Alteration assemblages (30–53)	Limonites (54–61)	Limonite intensity (62)	Mineralization (63–72)	Other (73–76)
.160	TR	CAP	1.12	D.4	S	7					M		GY
.125	TR	CAP	1.26	D.4	S	7			PL		M		GY
.075	.006	CAP	1.42	D4	S	7	QZ	BRXX	6M PL 2M 4F … H> 7A	1 S L S 3 7 1 0	M		
.080	.004	CAP	1.57	D.4	S	7	QZ	BRXX	6M PF 4M PL 3M H> 7F	1 S L S 3 7 1 0	F		
.335	TR	OXD	1.72	D3	S	7	QZ	BRXX	6F PF PM 4F PF PL HE 7A	1 S S S 3 7 1 0	F		MC CN GY
.560	.009	OXD	1.87	D.4	S	7	QZ	BRXX	6F PF PL 4F PF PL HE 7M		F	DI	MC CN GY

REM: CHIPS W SPALL - P.DCIT

(cx!)

after BI.

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R30

PAGE 3 OF 6

CW BG FORM 7 BY BT FOR P.H.B.M.

DIP AZIM.

TYPE OF HOLE: DDH RDH PDH

CORE

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK | ESTIMATES & ASSAYS | ELEMENTS OR MINERALS

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC. DENSITIES ∠ TO AXIS OF CORE: <30° | 30-60° | >60°

Fractures/foot | %Fracs Altered or Min | Fractures/foot | %Fracs or Min | Fractures/foot | %Fracs or Min

or RDH/PDH CUTTINGS: Large fragment diameter in mm | Percent Core Most of Fly | GRND CONDTN Minutes per foot Caving & Swelling

HOST ROCK: TYPE MODIFIER (Lighter than normal, % Darker than normal, Alphabetic colour of Host Rock; Value 1 to 9, 1=Black, 9=White, Alphabetic colour of Flows; Or Use Rock Colour Chart and Munsell System) | ACCESSORY MINERAL(S) | TEXTURE | GRAIN SIZE | ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ | K-SPAR KF | BIOTITE BI | SERICITE MU | PYRITE PY | CLAYS CY | CHLORITE CL | EPIDOTE EP | CARBONATES CB | OTHER | OTHER — MODE OF OCCURRENCE | AMOUNT (MODE / AMT.) — Use 2-letter code at each interval required, or as headings in spaces above; Or Use Rock Colour Chart and Munsell System | PRINCIPAL FACIES | INTENSITY

LIMONITES: TYPE Indigenous, Fringe or Exotic | CAVITIES | FRACTURE VOIDS | GANGUE REACTIVITY | MINERALS CONTROLLING COLOUR: % JAROSITE | % GOETHITE | % HEMATITE | % — Or Use Rock Colour Chart and Munsell System | LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) OR (B) SCALE: PYRITE MODE / AMOUNT | CHALCOPYRITE MODE / AMOUNT | MOLYBDENITE MODE / AMOUNT | CHALCOCITE ON GANGUE MODE / AMOUNT | CHALCOCITE MODE / AMOUNT | OTHER | OTHER

TOTAL FRAC WIDTH

REM — COARSE / HEAVIES / WATER FLOAT / OTHER REMARKS & COMMENTS: P. DCIT

VISUAL ESTIMATES / ACTUAL ASSAYS: .425 | .004 — QXD — 202 | D4 | S | 17 | QZ | BRXX | 6AP EP MA | PE | | | HE 7A IN SS SS 3 7 10 | IF | | | | INCICM CY

REM — QY-VEINS — Supergene. — Fracture

VISUAL / ACTUAL: .660 | .006 — QXD — 217 | D3 | S | 17 | QZ | BRXX | 6F | PF MA | PY | PE | | HE 7A IN SS SS 2 7 11 | IM | | | | INCICM GY

VISUAL / ACTUAL: .240 | .005 — QXD — 232 | D5 | S | 17 | QZ | BRXX | 6MP LB MA | PE | | | HE 7A IN SS SS 7 3 10 | IF | | | | INCICM GY

No visible Cu.

VISUAL / ACTUAL: .100 | .008 — CAP — 246 | D3 | S | 17 | QZ | BRXX | 4F | PF MA | PE | | | PE HE 7A IN SS SS 2 8 10 | IF | | | | | Low

REM — R. DCIT CHIPS — Supergene — Low — Weak.

VISUAL / ACTUAL: .180 | .018 — QXD — 260 | D2 | S | 17 | QZ | BRXX | 5FY LI PF MA | PY | | | PE HE 7A IN SS SS 2 7 11 | IF | | | | IGN

REM — P. DCIT CHIPS. — No Visible Cu

VISUAL / ACTUAL: .105 | .010 — CAP — 275 | D3 | S | 17 | QZ | BRXX | 6FE LI PF MA | PE | | | HE PIN SS SS 3 3 10 | IF | | | | | | |

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD. (CWGG)

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER P-30

PAGE 4 OF 6

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

REM: P. DRILL CHIPS

Estimates & Assays (Visual / Actual)	Contacts and Principal Zones	Bottom of Interval Described	Frac. Densities	Host Rock	Rock Type	Alteration Assemblages	Limonites	Mineralization	Remarks
.095 / .007	CAP	289	D4	S 6 QZ	BRXX	6F PL 1F 4F PL	H>7M I S L S 4 6 0	F	
	REM: P. DRILL CHIPS								All chips small.
.120 / .004	CAP	303	D4	S 7 QZ	BRXX	6F PL PF 4F PF	MG7M I S S S 4 6 0	F	
.095 / .008	CAP	319	D3	S 7 QZ	BRXX	6F PL PL 4F	H>7F I S L S 6 4 0	F	
.105 / .009	ØXD	334	D4	S 7 QZ	BRXX	4F PL PL 4F PF PL	H<7F I S L S 7 3 0	L	CN MC
.115 / .006	ØXD	349	D2	S 6 QZ	BRXX	PL PL 3F PL PM	H<7M I S S 8 1 1 1	L D	CN
.145 / .026	ØXD	363	D2	S 6 QZ	BRXX	PL PL PL PF PF PL	MG7F I S S 8 1 1 1	L D	

DRILL HOLE GEOLOGIC LOG

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R30

PAGE 5 OF 6

CW&G FORM 71-22

DIP — AZIM. — TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

Estimates & Assays (Visual / Actual)	Contacts and Principal Zones / Comments	Bottom of Interval Described	Frac Densities / RDH-PDH Cuttings	Type Modifier	Host Rock (Colour / Accessory Mineral(s))	Rock Type	Alteration Assemblages (QZ, KF, BI, MU, PY, CY, CL, EP, CB, Other)	Principal Facies / Intensity	Limonites	Limonite Intensity	Mineralization (Pyrite, Chalcopyrite, Molybdenite, Chalcocite on Gangue, Chalcocite, Other)
.300 .046	SUP	376	D3	S	6 QZ	BRXX	PF PL PF PM PF VL MG	7 M	I L L S 3 ? 0	L	D2 V D1 CM
.255 .041	SUP	391	D2	S	6 QZ	BRXX	AF BM AF PF HE	7 M	I L L S 3 2 0	I	D2 D1 CM
	REM — P. DCIT CHIPS										
.440 .029	SUP	406	D1	S	6 QZ	BRXX	PF PF PA PF H>	7 F	I L L S 5 5 0	L	>2 >1 D CN
.680 .019	SUP	420	D1	S	5 QZ	BRXY	DF PF PE PM PL H>	7 A		N	D2 <1 D1 D CN
.465 .044	SUP	436	D1	S	6 QZ	BRXX	DF PL PF PA PM PL MG	7 M		N	D2 D1 D1
.360 .019	SUP	450	D2	S	6 QZ	BRXX	PM PL(?) PM PM PL MG	7 A		N	D2 D1 D1

Row sub-lines: C (Coarse), H (Heavies), W (Water float), Other remarks & comments.

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R30

CW&G FORM 7 BY BT FOR PHRAS

DIP AZIM.

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CORE

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS: On Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC DENSITIES: ∠ TO AXIS OF CORE: < 30° | 30-60° | > 60°

Fractures/foot | % Fracs Altered or Min. | Fractures/foot | % Fracs Altered or Min. | Fractures/foot | % Fracs Altered or Min.

or RDH/PDH CUTTINGS: Large fragment diameter in mm. | Percent Coarse | GRND COND'N: Wet/Moist or Dry | Minutes per foot drilling | Caving & Swelling

HOST ROCK: TYPE MODIFIER (Lighter than normal, Darker than normal, Porphyritic, Aphanitic) | Colour of Host Rock: Value 1 to 9, 1-Black, 9-White | Alphanetic Colour of Fines | ACCESSORY MINERAL(S) | TEXTURE | GRAIN SIZE | ROCK TYPE USE 4-LETTER CODE

Or Use Rock Colour Chart and Munsell System

ALTERATION ASSEMBLAGES: QUARTZ QZ | K-SPAR KF | BIOTITE BI | SERICITE MU | PYRITE PY | CLAYS CY | CHLORITE CL | EPIDOTE EP | CARBONATES CB | OTHER | OTHER

MODE OF OCCURRENCE | AMOUNT | MODE | AMOUNT

Use 2-letter code at each interval required, or as headings in spaces above

MODE | AMT. | MODE | AMT. | PRINCIPAL FACIES | INTENSITY

LIMONITES: TYPE Indigenous, Fringe of Exotic | CAVITIES | FRACTURE VOIDS | GANGUE REACTIVITY | MINERALS CONTROLLING COLOUR: % JAROSITE | % GOETHITE | % HEMATITE | % | Or Use Rock Colour Chart and Munsell System | LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☐ OR (B) ☐ SCALE

PYRITE | CHALCOPYRITE | MOLYBDENITE | CHALCOCITE ON GANGUE | CHALCOCITE | OTHER | OTHER

MODE | AMOUNT

TOTAL FRAC WIDTH per ... or ... in terms of feet, or ...

ESTIMATES & ASSAYS: ELEMENTS OR MINERALS

1 2 3 4 5 6 | 7 8 9 10 | 11 12 | 13 | 14 15 16 | 17 | 18 19 20 21 | 22 23 24 25 | 26 27 28 29 | 30 31 | 32 33 | 34 35 | 36 37 | 38 39 | 40 41 | 42 43 | 44 45 | 46 47 | 48 49 | 50 51 | 52 53 | 54 55 56 | 57 | 58 59 60 61 | 62 | 63 64 | 65 66 | 67 68 | 69 70 | 71 72 | 73 74 | 75 76 | 77 78 | 79

COARSE
HEAVIES
WATER FLOAT
OTHER REMARKS & COMMENTS

REM P. DCIT CHIPS.

VISUAL ESTIMATES / ACTUAL ASSAYS

.560 | .038 | SUP | 5 | 465 | 1 | D2C | S | 6 | QZ | BRXX | 4 | MPL | PF | AF | PP | PL | H>7 | M | N | D1 | D1

C H W

REM P. DCIT CHIPS.

VISUAL / ACTUAL

.640 | .036 | SUP | 10 | 479 | 1 | W2C | S | 6 | QZ | BRXX | 6 | M | PL | PF | AF | PF | H<7 | M | N | D2 | V | D1

C H W

VISUAL / ACTUAL

.365 | .036 | SUP | 15 | 494 | 1 | W4 | S | 6 | QZ | BRXX | 6 | M | PL | AM | PF | PL | PL | H<7 | A | N | D2 | D1 | D1

C H W

VISUAL / ACTUAL

.310 | .034 | SUP | 20 | 509 | 1 | W3 | S | 6 | QZ | BRXX | 4 | M | PP | PP | AI | PL | PL | H#7 | H | N | D2 | D1 | D1 | V

C H W

VISUAL / ACTUAL

.300 | .027 | SUP | 25 | 523 | 1 | W3 | S | 6 | N | D3 | D1 | D1 | D1

C H W

EX example of see BT?

VISUAL / ACTUAL

.362 | .038 | SUP | 30 | 538 | 1 | W3 | S | 6 | QZ | BRXX | PF | PL | PM | PF | PL | H#7 | A | N | D3 | D1 | D1

CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R31

COMPANY: BRAMEDA RESOURCES LTD. PROPERTY: CASINO LOGGED BY: C.G DATE: FEB. 1971 PAGE 1 OF 6

CW&G FORM 7 BY BT FOR RMS

DIP ____ AZIM. ____ TYPE OF HOLE: DDH ☑ RDH ☐ PDH ☐

CORE

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS: Or Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC DENSITIES: < 30° TO AXIS OF CORE | 30-60° | > 60°

Fractures/foot | % Fracs or Min. Altered | Fractures/foot | % Fracs or Min. Altered | Fractures/foot | % Fracs or Min. Altered

or RDH/PDH CUTTINGS: Large frag. max. diameter in mm | Percent Coarse | Weight Most of Pc. | GRND CONDTN: Minutes per foot | Caving & Swelling

HOST ROCK: TYPE MODIFIER (Lighter than normal, Si, Fe, Mn, Ca enrichment, Alphabetic colour of Host Rock, Value 1 to 3 1=Black, 3=White, Alphabetic colour of Fines) | ACCESSORY MINERAL(S) | TEXTURE | GRAIN SIZE | ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ | K-SPAR KF | BIOTITE BI | SERICITE MU | PYRITE PY | CLAYS CY | CHLORITE CL | EPIDOTE EP | CARBONATES CB | OTHER TP | OTHER HT

MODE OF OCCURRENCE | AMOUNT | MODE | AMOUNT | MODE | AMOUNT | MODE | AMOUNT | MODE | AMOUNT | MODE | AMOUNT | MODE | AMOUNT | MODE | AMOUNT | MODE | AMT. | MODE | AMT.

Use 2-letter code at each interval required, or as headings in spaces above

PRINCIPAL FACIES | INTENSITY

LIMONITES: TYPE (Indigenous, Fringe or Exotic) | CAVITIES | FRACTURE VOIDS | GANGUE REACTIVITY | MINERALS CONTROLLING COLOUR: % JAROSITE | % GOETHITE | % HEMATITE | % | Or Use Rock Colour Chart and Munsell System | LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☑ OR (B) ☐ SCALE: PYRITE | CHALCOPYRITE | MOLYBDENITE | CHALCOCITE ON GANGUE | CHALCOCITE | OTHER | OTHER — MODE | AMOUNT

TOTAL FRAC WIDTH per ft. in terms of feet, %

ESTIMATES & ASSAYS ELEMENTS OR MINERALS: Cu | MoS_2

1 2 3 4 5 6 | 7 8 9 10 | 11 12 | 13 | 14 | 15 | 16 | 17 | 18 19 20 | 21 | 22 23 24 | 25 | 26 27 28 29 | 30 31 | 32 33 | 34 35 | 36 37 | 38 39 | 40 41 | 42 43 | 44 45 | 46 47 | 48 49 | 50 51 | 52 53 | 54 55 56 | 57 | 58 59 60 | 61 | 62 | 63 64 | 65 66 | 67 68 | 69 70 | 71 72 | 73 74 | 75 76 | 77 78 | 79 80

COARSE → HEAVIES → WATER FLOAT → OTHER REMARKS & COMMENTS

VISUAL ESTIMATES / ACTUAL ASSAYS

ØVB 5 | 23 | D1 | 17 |

C

H

W

VISUAL / ACTUAL .160 / .002 — CAP 10 | 38 | D2 | 17 | 3APLS | 6H | 4M | PL | 5M | 1 5 5 5 3 7 0 | A

Py-Byw.

C

H

W

stable

VISUAL / ACTUAL .210 / TR — SUP 15 | 53 | D2 | M | 17 | BI | 4 1 0 2 DR | 6F | 4F | PH | 3A | 1 5 5 5 3 5 2 | L | #2 | #1

C

H

W

VISUAL / ACTUAL .300 / TR — SUP 20 | 67 | W1 | M | 17 | BI | 4 1 0 2 DR | PL | PH | 3H | N<2 | <1

C

H

W

destroyed

VISUAL / ACTUAL .225 / TR — SUP 25 | 82 | W1 | M | 17 | 4 1 0 2 DR | 4F | 4M | PF | PF | 5F | N<2 | <1

C

H

W

VISUAL / ACTUAL .110 / TR — SUP 30 | 97 | W1C | M | 16 | BI | 4 1 0 2 DR | PL | PL | PM | 3F | N<3 | <1

CW &G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R31

COMPANY: PROPERTY: LOGGED BY: DATE:

CW&G FORM

DIP AZIM. TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

Estimates & Assays (Visual / Actual)		Contacts and Principal Zones	Bottom of Interval Described	Frac. Densities	Host Rock: Colour (col. 20)	Host Rock: Grain Size	Rock Type	Quartz QZ	Sericite MU	Clays CY	Principal Facies / Intensity	Limonite Intensity	Pyrite	Chalcopyrite	Molybdenite	Chalcocite on Gangue	Remarks
.155	TR	SUP	111	W2C	7	3	APLT	6M	4M	PA	5A	N	>3	V	V	>1	
.105	TR	SUP	126	W4	7	3	APLT					N	>2			>1	
.185	.002	SUP	141	W2	7	3	APLT	4A	4M	PA	5A	N	>3		D	>1	
.215	.002	SUP	155	W1	7	3	APLT	6A	4M	PA	5A	N	<3			<1	MAINLY VEINS AS CHIPS
.195	.002	SUP	170	W2	7							N	<3			<1	
.330	.002	SUP	186	W1	7							N	<2	D		<1	

CW&G CHAPMAN, WOOD AND GRISWOLD LTD. COMPANY:

DRILL HOLE GEOLOGIC LOG

PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R31

CW&G FORM

DIP AZIM. TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

Actual assays		Contacts and principal zones	Bottom of interval described	Frac. densities	Host rock value	Grain size	Rock type	Quartz QZ	Sericite MU	Pyrite PY	Principal facies	Limonite intensity	Pyrite	Chalcopyrite	Chalcocite on gangue	Chalcocite	Other
.180	.002	SUP	200	W4	7							N	<3	V1	<1		
.235	.002	SUP	214	W4	7							N	<3		<1		CY
.180	.005	SUP	229	W6	8							N	>3		>1		
.070	.002	SUP	244	W6	8	3	APLT	PM	PM	PF	5A	N	>3		>1		
.095	.002	SUP	258	W4	7	3	APLT	6M	4M	PF	5A	N	>3	D1	>1	D1	
.105	TR	SUP	272	W4	8							N	#3		#1		

Mainly QZ-VENS IN CHIPS (bracketed, intervals to 200–229)

DRILL HOLE GEOLOGIC LOG

CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R31

PAGE 4 OF 6

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CNT — 280

Actual Assays	Contacts and Principal Zones	Bottom of Interval Described	Frac. / Grnd Cond'n	Type Modifier	Colour	Accessory Mineral(s)	Texture / Grain Size	Rock Type	Biotite	Sericite	Clays	Carbonates	Other	Principal Facies	Limonite Intensity	Mineralization
.065 TR	HYP	287	W3	M	8	BI	4	QZDR		PL	PH	PF	ING	3H	N	#3D1
.070 TR	HYP	301	W2	M	7	BI	4	QZDR		PL	PH	PF	ING	3H	N	D2
.065 TR	HYP	316	W3	M	7	BI	1	QZDR	PM	PL	PA	PF		3A	N	<4
.080 TR	HYP	331	W3	M	6	BI	1	QZDR	PL	PL	PA	PF		3A	N	<3
.115 TR	HYP	346	W2	M	7	BI	1	QZDR	PA	PL	PA	PF		3H	N	#3D2
.135 TR	HYP	361	W2	M	7	BI	4	QZDR	PM	PL	PA	PF		3H	N	#3D2

↓ different light brn colour

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R31

COMPANY: PROPERTY: LOGGED BY: DATE:

CW&G FORM

DIP AZIM. CORE — TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

Estimates & Assays (Actual)		Contacts and Principal Zones	Bottom of Interval Described	Frac. Densities / Grnd Cond'n	Type Modifier	Host Rock (colour/value)	Host Rock (accessory minerals / rock type)	Quartz QZ	Sericite MU	Clays CY	Chlorite CL	Carbonates CB	Principal Facies / Intensity	Limonite Intensity	Mineralization (Pyrite / Chalcopyrite)
.245	.002	HYP	377	W2	M	7	BI 4 QZDR			PH	PL	PF	3A	N	<4 K2
.185	.002	HYP	391	W2	M	7	BI 4 QZDR	4L	AM	PA		PF	3X	N	#3 D1
.155	TR	HYP	406	W3	M	7	—	—	—	—		PF	—	N	<3 V
.180	.002	HYP	420	W3	M	6	—	—	—	—		PF	—	N	>3 D1
.150	TR	HYP	435	W3	M	8	—	6A	4H	PF		PF	5M	N	>3 D1
.100	.002	HYP	449	W3	M	7	—		PM	PA		PF	3X	N	#3 D1

Remarks (between 377 and 391): part of chips only (change in ALT) — almost 5-ALT

DRILL HOLE GEOLOGIC LOG

CW&G — CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R31

PAGE 6 OF 6

TYPE OF HOLE: DDH [ ] RDH [✓] PDH [ ]

Assays (actual)	Contacts and principal zones	Bottom of interval described	Frac. densities	Host rock (type modifier / colour / rock type)	Alteration assemblages	Limonites	Mineralization
.135 .002	HYP	464	W2	M 8 BI 4 QZDR	PF (MU) PH PL (CY/CL) PF (CB) H#3A	N	<3 D/
.130 .002	HYP	478	W3	M 6 BI 1 QZDR	PL (MU) PH (CY) PF (CB) H<3H	N	#3

END

Remarks: DAPLT intrudes M. QZDR ?

CW&G CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER: R32

COMPANY: Bromeda Resources Ltd PROPERTY: Casino Project LOGGED BY: CG DATE: FEB. 1971 PAGE 1 OF 7

CW&G FORM 71-02

DIP ___ AZIM ___ TYPE OF HOLE: DDH [ ] RDH [✓] PDH [ ]

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu, MoS_2

MINERALIZATION — PERCENT BY: (A) [✓] OR (B) [ ] SCALE

Cu (actual)	MoS_2 (actual)	Contacts and Principal Zones	Bottom of Interval Described	Frac. Densities / RDH Cuttings	Host Rock Value	Rock Type (4-letter code)	Quartz QZ	Sericite MU	Clays CY	Other TØ	Principal Facies / Intensity	Limonite Type	Cavities	Fracture Voids	Gangue Reactivity	% Jarosite	% Goethite	% Hematite	Limonite Intensity
		OVB	14	D															
.015	.002	CAP	22	D3	9	5GRNT	6A	4H		3F	5H	I	L	5	5	9	1	0	L
.005	.002		37	D5	9	5GRNT	6A	4H		3M	5H	I	L	4	5	9	1	0	F
.005	TR		52	D3	9	5GRNT	6A	4H	PF	PF	5A	I	L	4	5	9	0	0	F
.005	TR		67	D2	9	5GRNT	6A	4H		PF	5H	I	L	4	5	9	1	0	F
TR	TR		82	D1	9	5GRNT	6A	4H		3M	5H	I	L	L	5	8	1	1	F

DRILL HOLE GEOLOGIC LOG

CW&G — CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: Bromeda Resources Ltd PROPERTY: Casino Project LOGGED BY: DATE:

HOLE NUMBER R32

CW&G FORM

DIP ____ AZIM ____ TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

ELEMENTS OR MINERALS: Cu | MoS_2

Estimates & Assays (Cu)	Estimates & Assays (MoS_2)	Contacts and Principal Zones / Comments	Bottom of Interval Described (7–10)	Frac. Densities (11–16)	Host Rock: Colour (17–21)	Grain Size (25)	Rock Type (26–29)	Quartz QZ (30–31)	Sericite MU (36–37)	Pyrite PY (38–39)	Other TO (48–49)	Principal Facies / Intensity (52–53)	Limonites (54–62)
TR	TR	CAP	96	D2	9	5	GRNT	6A	4H	PF	3M	5A	ILL5009 M
TR	TR	=	111	D2	9	=	=	=	=	=	=	=	ILL5811 F
TR	TR	=	126	D2	9	5	GRNT	6A	4H	PF	3M	5A	ILS5307 F
TR	TR	=	141	D2	9	5	GRNT	6A	4A	PM	PF	5M	ILL5919 F
TR	TR	=	155	D3	9	5	GRNT	6A	4H	PL	PF	5A	ILL5550 M
TR	.002	=	169	D3	9	5	GRNT	6A	4H	PF	3F	5A	ILS5109 F

DRILL HOLE GEOLOGIC LOG

CW&G — CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R 32

PAGE 3 OF 7

CW&G FORM 71-02

TYPE OF HOLE: DDH / RDH ✓ / PDH

ELEMENTS OR MINERALS: Cu | MoS_2

Actual Assays Cu	Actual Assays MoS_2	Contacts and Principal Zones	Bottom of Interval Described	Frac. Densities	Type Modifier (17)	Value (20)	Accessory Mineral(s) (22-23)	Grain Size (25)	Rock Type (26-29)	Quartz QZ (30-31)	Sericite MU (36-37)	Clays CY (40-41)	Other TO (48-49)	Principal Facies / Intensity (52-53)	Limonite Type (54)	Cavities (55)	Fracture Voids (56)	Gangue Reactivity (57)	% Jarosite (58)	% Goethite (59)	% Hematite (60)	Limonite Intensity (62)
.005	.002	CAP	184	D3		9		S	GRNT	4A	4A	PF	PF	SM	I	L		S	9	0	0	F
.005	TR		199	D3		9		S	GRNT	6A	4H	PF	3F	SM	I	L	M	S	9	0	0	F
.005	.002		214	D3	S	9	QZ		BRRX	4A	4A	PF	PL	SM	I	S	L	S	9	1	0	F
.005	.002		228	D2	S	9	QZ		BRRX	4A	4A	PF	PL	SM	I	L	L	S	9	0	0	F
.010	TR		242	D2		9		S	GRNT	4A	4A	PL	PL	SM	I	L	S	S	9	0	0	F
.015	TR		257	D3		9		S	GRNT	6A	4X	PL		SH	I	L	S	S	9	1	0	F

DRILL HOLE GEOLOGIC LOG

CW&G — CHAPMAN, WOOD AND GRISWOLD LTD.

COMPANY: Bramedas Resources Ltd PROPERTY: Casino Project LOGGED BY: DATE:

HOLE NUMBER: R32

PAGE 4 OF 7

CW&G FORM 71-

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐ — DIP — AZIM —

ELEMENTS OR MINERALS: Cu, MoS_2

Cu (actual assay)	MoS_2 (actual assay)	Contacts and principal zones	Bottom of interval described	Frac. / cuttings	Type modifier	Colour value	Accessory mineral(s)	Rock type	Quartz (QZ)	Sericite (MU)	Pyrite (PY)	Other (TO)	Principal facies	Limonite type	Cavities	Fracture voids	Gangue reactivity	Minerals controlling colour	Limonite intensity
.010	TR	CAP	272	D2		9		SGRNT	6A	4H	PL	PL	SA	I	L	L	5	9 0 D	F
.010	.002		287	D2		9		SGRNT	4A	4H	PF		SA	I	L	L	5	9 0 D	F
.045	.002		301	D2	S	8	Q2	BRAX	6A	4H	PF		SA	I	S	S	5	1 2 7	F
.025	TR		315	D2		9		SGRNT	4A	4H	PL	PL	SA	I	S	L	5	7 3 0	F
.030	TR		329	D2		9		SGRNT	4A	4H	PF	PL	SA	I	L	S	5	9 0 D	F
.025	TR		344	D2	S	8	Q2	BRAX	4A	4H	PF		SM	I	L	L	5	9 0 0	F

???

CW BG CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER R32

COMPANY: PROPERTY: LOGGED BY: DATE:

CW B G FORM 71-[illegible] BY B.T. FOR P.H. BLAN[illegible]

DIP AZIM TYPE OF HOLE DDH ☐ RDH ☒ PDH ☐

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS (i.e. coarse, heavies & water float)

BOTTOM OF INTERVAL DESCRIBED

FRAC DENSITIES: <3 TO AXIS OF CORE | 3-60° | >60° — Fractures/foot; % Fracs Altered; % Fracs re Min.; or RDH/PDH CUTTINGS: Large fragment dia. meter in mm; Percent Coarse; Host Rock Type; Minutes per Foot Drilling; % Fracs Altered; % Fracs Mineralized

HOST ROCK: TYPE MODIFIER (Lighter than normal, N, Darker than normal); Or Use Rock Colour Chart and Munsell System; Alphabetic colour of Host Rock; Value 1 to 9 I.e. Black, 9=White; Alphabetic colour of Fines; ACCESSORY MINERAL(S); TEXTURE; GRAIN SIZE; ROCK TYPE USE 4-LETTER CODE

ALTERATION ASSEMBLAGES: QUARTZ QZ; K-SPAR KF; BIOTITE BI; SERICITE MU; PYRITE PY; CLAYS CY; CHLORITE CL; EPIDOTE EP; CARBONATES CB; OTHER; OTHER — MODE OF OCCURRENCE; MODE; AMOUNT; Use 2-letter code at each interval required, or as headings in spaces above; MODE; AMT.; MODE; AMT.; PRINCIPAL FACIES; INTENSITY

LIMONITES: TYPE Indigenous, Fringe of Exotic; CAVITIES; FRACTURE VOIDS; GANGUE REACTIVITY; MINERALS CONTROLLING COLOUR: % JAROSITE; % GOETHITE; % HEMATITE; %; Or Use Rock Colour Chart and Munsell System; LIMONITE INTENSITY

MINERALIZATION PERCENT BY: (A) ☐ OR (B) ☐ SCALE: PYRITE; CHALCOPYRITE; MOLYBDENITE; CHALCOCITE ON GANGUE; CHALCOCITE; OTHER; OTHER — MODE; AMOUNT

TOTAL FRAC WIDTH per [illegible] or [illegible] in width of feet, or [illegible]

STRUCTURE AND/OR ALTERATION ZONE & HOST ROCK

ESTIMATES & ASSAYS ELEMENTS OR MINERALS: Cu. MoS_2

COARSE | HEAVIES | WATER FLOAT | OTHER REMARKS & COMMENTS

VISUAL ESTIMATES / ACTUAL ASSAYS		BOTTOM OF INTERVAL	HOST ROCK	ALTERATION ASSEMBLAGES	LIMONITES	MINERALIZATION
.060 / .002	CAP	359	D.2 C S 8 Q2 B R X X	6F 4M PL 4M	H # 7A	I S S S 7 2 1 1 M
C						
H						
W						
VISUAL / ACTUAL .050 / .002	CAP	374	D.2 S 8 Q2 B R R X	6A PL 4H PF	7L	I S L S 7 2 1 1 F
C						
H						
W						
VISUAL / ACTUAL .060 / .002	CAP	389	D.2 S 8 Q2 B R R X	4M 4M PF	5F	I S L S 7 3 0 F
C						
H						
W						
VISUAL / ACTUAL .070 / .002	CAP	403	D.2 S 8 Q2 B R R X	4M 4M PF	5F	I S S S 2 8 0 M
C						
H						
W						First sulphide
VISUAL / ACTUAL .110 / .009	SUP	418	D2 S 9 Q2 B R A X	4A 4M PF	PL 5F	I S S S 2 7 1 1 IN D1 D1
C						
H						
W						
VISUAL / ACTUAL .160 / .005	SUP	432	D.3 S 7 Q2 B R R X	4A 4M PF	5F	I S S S 2 8 0 F D3 D1

CW & G — CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: PROPERTY: LOGGED BY: DATE:

HOLE NUMBER R32

CW & G FORM 71-

DIP / AZIM — TYPE OF HOLE: DDH [ ] RDH [✓] PDH [ ]

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu. | MoS_2

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS on Coarse, Heavies & Water float — COARSE / HEAVIES / WATER FLOAT / OTHER REMARKS & COMMENTS

Cu (actual assay)	MoS_2 (actual assay)	Contacts / Comments	Bottom of Interval Described	Frac. Densities	Type Modifier	Host Rock Value	Accessory Mineral(s)	Grain Size	Rock Type	Quartz QZ	K-Spar KF	Sericite MU	Pyrite PY	Other (TO/HY)	Principal Facies	Limonites (Type, Cavities, Fracture Voids, Gangue Reactivity, % Jarosite, % Goethite, % Hematite, %)	Limonite Intensity	Pyrite	Chalcopyrite	Chalcocite on Gangue	Chalcocite
.125	.003	SUP	447	D2	S	7	QZ		BRRX	4A		4M	PF		SF	I S S 5 2 8 0	L	>3	D1	D1	D1
.195	.006	═══	462	D3	S	7	QZ		BRXX	4A		4M	PF		SF	I L S 5 3 7 0	L	#3	D1	#1	D1
.135	.002	═══	476	D1C		7		5	GRNT	4A	PF (pink)	4M	PF	HE	7F		N	#3	D1	#1	D1
.160	.008	═══	491	D3		8		5	GRNT	6M		4A	PF		SM	I S S 5 2 6 2	L	<2	D1	<1	D1
.185	.013	═══	505	D3		7		5	GRNT	4M		4A	PF		SM		N	#2	D1	#1	D1
.165	.002	═══	520	D3	S	7	QZ ??		BRXY ????	4A		4A	PF		SM		N	D2	D1	D2	D1

CW BG — CHAPMAN, WOOD AND GRISWOLD LTD.

DRILL HOLE GEOLOGIC LOG

COMPANY: _____ PROPERTY: _____ LOGGED BY: _____ DATE: _____

HOLE NUMBER P32

CW B G FORM 71-102 BY B.T. FOR P. BLANEY

DIP _____ AZIM. _____

TYPE OF HOLE: DDH ☐ RDH ☑ PDH ☐

CORE

STRUCTURE AND/OR ALTERATION | ZONE & HOST ROCK

CONTACTS AND PRINCIPAL ZONES (IF ROTARY OR PERCUSSION HOLE) COMMENTS On Coarse, Heavies & Water float

BOTTOM OF INTERVAL DESCRIBED

FRAC DENSITIES — < 30° TO AXIS OF CORE | 30-60° | > 60°

Fractures/foot | % Fracs Altered or Min. | Fractures/foot | % Fracs Altered or Min. | Fractures/foot | % Fracs Altered or Min.

or RDH/PDH CUTTINGS — Large fragment diameter in cm. | Percent Chips | Wet/Moist or Dry | GRND CONDN Minutes per foot Giving a Swelling

HOST ROCK — TYPE MODIFIER (Lighter than normal, N, Darker than normal, Alphabetic colour of Host Rock; Value 1 to 9 White to Black, Alphabetic colour of Fines) | ACCESSORY MINERAL(S) | TEXTURE | GRAIN SIZE | ROCK TYPE USE 4-LETTER CODE (Or Use Rock Colour Chart and Munsell System)

ALTERATION ASSEMBLAGES — MODE OF OCCURRENCE | QUARTZ QZ | K-SPAR KF | BIOTITE BI | SERICITE MU | PYRITE PY | CLAYS CY | CHLORITE CL | EPIDOTE EP | CARBONATES CB | OTHER | OTHER — AMOUNT — Use 2-letter code at each interval required, or as headings in spaces above — PRINCIPAL FACIES | INTENSITY

LIMONITES — TYPE (Indigenous, Fringe or Exotic) | CAVITIES | FRACTURE VOIDS | GANGUE REACTIVITY | MINERALS CONTROLLING COLOUR (% JAROSITE | % GOETHITE | % HEMATITE | Or Use Rock Colour Chart and Munsell System) | LIMONITE INTENSITY

MINERALIZATION — PERCENT BY: (A) ☐ OR (B) ☐ SCALE — PYRITE | CHALCOPYRITE | MOLYBDENITE | CHALCOCITE ON GANGUE | CHALCOCITE | OTHER | OTHER — MODE / AMOUNT

TOTAL FRAC WIDTH per .01' or ____ in terms of feet, or ____

ESTIMATES & ASSAYS — ELEMENTS OR MINERALS: Cu | MoS_2

1 2 3 4 5 6 | 7 8 9 10 | 11 12 13 14 15 16 | 17 | 18 19 20 21 | 22 23 24 25 26 27 28 29 | 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 | 48 49 50 51 | 52 53 | 54 55 56 57 | 58 59 60 61 | 62 | 63 64 65 66 67 68 69 70 71 72 | 73 74 75 76 | 77 78 | 79 80

COARSE → | HEAVIES → | WATER FLOAT → | OTHER REMARKS & COMMENTS →

REM 505-535 RK-TYPE INDISTINCT

VISUAL ESTIMATES / ACTUAL ASSAYS .130 .005

SUP 535 D.3 B 7H Q2 BRXX KA KA PF SM IN <3 DU DL DI

C H W

REMARKS: D NB CB

VISUAL / ACTUAL — 10

C H W

VISUAL / ACTUAL — 15

C H W

VISUAL / ACTUAL — 20

C H W

VISUAL / ACTUAL — 25

C H W

VISUAL / ACTUAL — 30

091348

RECEIVED
1 MAR 1974
MINING RECORDER'S OFFICE
WHITEHORSE, Y.T.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA CASINO CREEK
DIP -50°
AZIMUTH N 46°30' E

NORTHING 835,901.5N
EASTING 365,891.4E
ELEVATION 3885.9

DATE COLLARED AUG. 20, 1973 HOLE No. P-49
DATE COMPLETED AUG. 31, 1973 PAGE No. 1 of 12
LENGTH 1001 FT. CORE SIZE 122-747 NQ
747-1001 BQ

See also Assay Summary Log

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION							Cu		DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	cc	
00	122	122	—																OVERBURDEN Talus underlain by clay and leached decomposed rock.
122	130	8.0	8.0	9001	.055	<.001	.1		1	W		11 45		S				W	APLITE f-m. gr., light grey, occ. dk. chl. sects, variable silicification, minor free qtz, leached and jarositic limonite stained to approx. 160, with minor remnant pyrite, tr cpy, weak to mod. cc.
130	140	10.0	10.0	9002	.065	<.001	.3		1	M		30 45		M			Tr	W	122.5-128.5 wk. chl. alt, jar lim stain 130 dec. fract, dec. arg alt, inc sil, inc jar lim.
140	150	10.0	10.0	9003	.26	<.001	.25		1	W		20 60		M S				W	138.5-139.5 Bx V. 45°CA, matrix arg. jar lim, tr cc.
150	160	10.0	10.0	9004	.35	.005	.3		1	W		Lo 60		M S				W	147.0-151.0 Strong earthy arg alt, jar lim.
160	170	10.0	10.0	9005	.25	.005	.35		1	M		Lo 40		M			Tr	W	158.0 Decrease limonite, increase v. fine diss ac. and coating fg. py., Moly smear on fracts
170	180	10.0	10.0	9006	.20	.007	.5		1+	M		Lo 45		M			Tr	M	177.0-178.0 Slip w. Moly smear 5°CA.
180	190	10.0	10.0	9007	.46	.002	.4		1	M		30 45		M S			Tr	M	178.0 - CONTACT QUARTZ DIORITE f-m. gr, lt grey to med. grey, arg. alt, finely diss biotite, becoming finer grained and darker w. chl. alt. from contact, increasing cc on fracts.

POORLY LEACHED CAP → SUPERGENE ←

AREA CASINO CREEK
DIP -50°
AZIMUTH N 46°30' E

NORTHING 835,901.5 N
EASTING 365,891.4 E
ELEVATION 3885.9

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED AUG 20, 1973 HOLE No. P-49
DATE COMPLETED AUG 31, 1973 PAGE No. 2 of 12
LENGTH 1001 FT. CORE SIZE 122-747 NQ
747-1001 BQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION							Cu		DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	cPY	cc	
190	200	10.0	10.0	9008	.31	.022	.2		<1	W		30 60		S			<1	Tr	QUARTZ DIORITE
200	210	10.0	9.7	9009	.08	<.001	.3		2	W		Lo 45		S			<1	Tr	203.0-204.0 st. chl. alt, slips, py vng 15°CA.
210	220	10.0	10.0	9010	.22	<.001	.2		3			W		S Chl.			<1		213.0-216.5 st. chl. alt, broken.
220	230	10.0	10.0	9011	.12	<.001	.2		3			W		S Chl			<1		Chl. alt, some Ca vng.
230	240	10.0	9.5	9012	.22	<.001	.25		3			Lo		S Chl			<1		232.5-237.0 Chl. slips // CA. 237.0-240.6 St. chl alt and bleaching w. ca.
240	250	10.0	9.3	9013	.09	.002	.2		2			Lo		S Chl			<1		
250	260	10.0	10.0	9014	.10	.002	.25		2	W		M	M	S Chl Ca			<1		252.0-253.0 St. py, 10%. 254.0-258.0 St. earthy chl-ca alt.
260	270	10.0	10.0	9015	.29	.007	.2		2	W		Lo		S Chl Ca			<1		260.0-262.0 St earthy chl-ca alt. 265.0-267.0 Ca slip // CA

SUPERGENE
PRIMARY

AREA CASINO CREEK
DIP -50°
AZIMUTH N 46°30' E

NORTHING 835,901.5 N
EASTING 365,891.4 E
ELEVATION 3885.9

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED AUG. 20 1973 HOLE No. P-49
DATE COMPLETED AUG. 31, 1973 PAGE No. 3 of 12
LENGTH 1001 FT CORE SIZE 122-747 NQ
747-1001 BQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION							Cu		DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	cpy	cc	
																			QUARTZ DIORITE
270	280	10.0	6.5	9016	.16	.003	.15		1			M		S Ca Chl			<1		268.0–274.0 St. earthy chl-ca alt.
280	290	10.0	7.5	9017			.2		3			Lo Hi		S Ca Chl			<1		281.0–288.0 St. earthy arg alt, chl-ca.
290	300	10.0	10.0	9018	.28	<.001	.2		2			60 70		S Ca Chl			<1		292.0–293.0 BX, arg alt frags in chl. matrix
300	310	10.0	10.0	9019	.17	.003	.2		2			45 Hi		S/M Ca Chl			<1		Decreasing alteration. 306.0–308.0 St. fract., earthy arg. alt, chl. 308.0 Start more massive, less altered, fracts with ca.
310	320	10.0	10.0	9020	.15	.003	.25		3			60 80		M S			<1		
320	330	10.0	10.0	9021	.11	.023	.2		2	M		W 60		M S			<1		323.0–330.0 f.g. bleached, wk chl.
330	340	10.0	10.0	9022	.14	.003	.25		2+			W		M S			<1		330.0–331.0 Black earthy seam, moly smear 25°CA 331.0–335.0 Chl. alt, w. inc py to 4%.
340	350	10.0	10.0	9023	.25	.033	.2		2+	W		W		M S			<1		342.0–343.0 Soft black earthy alt, below inc. py. in fracts. 349.0–350.0 1" Ca.v. 20°CA

AREA CASINO CREEK
DIP -50°
AZIMUTH N 46°30' E

NORTHING 835,901.5 N
EASTING 365,891.4 E
ELEVATION 3885.9

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED AUG. 20, 1973 HOLE No. P-49
DATE COMPLETED AUG. 31, 1973 PAGE No. 4 of 12
LENGTH 1001 FT. CORE SIZE 122-747 NQ
747-1001 BQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION							Cu		DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K. SPAR	cpy	cc	
350	360	10.0	10.0	9024	.20	.003	.3		3			M		M S			1		QUARTZ DIORITE 350.0 Start sl. mottling, st. chl. alt., well diss Py, tr – 1% cpy, irreg. ca vng.
360	370	10.0	10.0	9025	.33	.013	.25		2			Hi		M S			<1		363.0–364.5 Strong fracturing 364.5–366.0 qtz-ca vng 45°CA
370	380	10.0	10.0	9026	.20	.007	.2		2			45 Hi		M S			<1		374.5–376.5 earthy alt, v. Broken core
380	390	10.0	10.0	9027	.16	.008	.25		3	W		Hi		M			<1		382.5 – Contact APLITE light coloured, fg., inc sil., w. inc. Py on fracts high & CA.
390	400	10.0	10.0	9028	.19	.005	.3		3	W		W		M			1		397.0 – contact 400.0 – contact QUARTZ DIORITE sheared. RHYOLITE Dark, fg. chloritized, well diss. Py.
400	410	10.0	10.0	9029	.14	.003	.2		3+			W		S			<1		403.0 – contact QUARTZ DIORITE 408.5–410.0 st. earthy arg alt.
410	420	10.0	10.0	9030	.32	.008	.25		3			W 35		S			<1		
420	430	10.0	10.0	9031	.25	.003	.3		2			Lo		S			<1		428.0–437.0 Inc. cpy.

AREA CASINO CREEK
DIP -50°
AZIMUTH N 46° 30' E

NORTHING 835,901.5 N
EASTING 365,891.4 E
ELEVATION 3885.9

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED AUG. 20, 1973 HOLE No. P-49
DATE COMPLETED AUG. 31, 1973 PAGE No. 5 of 12
LENGTH 1001 FT CORE SIZE 122-747 NQ
747-1001 BQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION							Cu	
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	cPY	cc
430	440	10.0	10.0	9032	.33	.003	.35		2			45		S	M		1	
440	450	10.0	10.0	9033	.27	.007	.3		2+			40		S	M S		1	
450	460	10.0	10.0	9034	.45	.011	+1%		2+	M		Lo		S	S		2+	
460	470	10.0	10.0	9035	.28	.007	.6		2			45		S	S M		1+	
470	480	10.0	10.0	9036	.25	.007	.4		1+			45	M	S	S		1	
480	490	10.0	10.0	9037	.27	.018	.3		2	W		Irr		S	S		1	
490	500	10.0	10.0	9038	.19	.008	.3		2+	M		Irr		S	M		1	
500	510	10.0	10.0	9039	.26	.017	.4		2+			Irr	W	S	W		1	

DESCRIPTION

QUARTZ DIORITE

Inc. cpy.

446.0-465.0 Inc. chl.-bio alt to fg. dk. rx.
Inc. py + cpy w. depth to 5%
Some chl. shearing low ∠ CA.

sl. dec. cpy.

474.0-479.5 Strong earthy alt and shear, w. poss moly smear.
Chl.-bio alt. to 485 w. freq. slips.

Rx. sl. gneissic // to low ∠ CA.

496.5-504.0 v. fract. irreg. w arg alt.

507.0-510.0 v. fract., sl. sil,

AREA CASINO CREEK
DIP -50°
AZIMUTH N 46° 30' E

NORTHING 835,901.5 N
EASTING 365,891.4 E
ELEVATION 3885.9

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED AUG 20, 1973
DATE COMPLETED AUG 31, 1973
LENGTH 1001 FEET

HOLE No. P-49
PAGE No. 6 of 12
CORE SIZE 122-747 NQ
747-1001 BQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION							Cu	
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	cc
510	520	10.0	10.0	9040	.32	.013	.35		2+	M		W		MS	M		1	
520	530	10.0	10.0	9041	.21	.007	.5	v	2			S		S	W		1+	
530	540	10.0	10.0	9042	.27	.003	1%		2−			Lo		S	S		3	
540	550	10.0	10.0	9043	.23	.030	.4		2			Lo		S	M		1+	
550	560	10.0	10.0	9044	.25	.007	.4		2			W 45		S	MS		1+	
560	570	10.0	10.0	9045	.21	.011	.25		2			W 45		M	W		<1	
570	580	10.0	10.0	9046	.24	.005	.3		2+			W 45		M	W		1	
580	590	10.0	10.0	9047	.25	.010	.4		2+			W 35	M	MS	W		1+	

DESCRIPTION

QUARTZ DIORITE

510.0 - 523.0 silicified.
514.0 - 516.0 arg-chl. alt.

523.0 start v. fract and arg alt, earthy, f.g. py, cpy, moly.

to 541.0 fg. chl., ca fracts, earthy, v. broken, slips low ∠ CA, good cpy.

Dec. fract, more massive.

560.0 Dec. chl. alt, massive, occ ca vt's, inc ca alt, fine diss py.

569.0 2" cpy-qtz-ca v 80° CA.

581.0 2" py-qtz-ca v 80° CA.

585.0 - 588.0 v. broken, arg. alt, ca vng.
588.0 - 592.0 ca vng ∿45° CA.

AREA CASINO CREEK
DIP -50°
AZIMUTH N46°30'E

NORTHING 835,901.5 N
EASTING 365,891.4 E
ELEVATION 3885.9

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED AUG 20, 1973
DATE COMPLETED AUG 31, 1973
LENGTH 1001 FT.

HOLE No. P-49
PAGE No. 7 of 12
CORE SIZE 122-747 NQ
747-1001 BQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION							Cu		DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	cpy	cc	
590	600	10.0	10.0	9048	.20	.002	.45	✓	2			Hi	W	M	W		1+		QUARTZ DIORITE 590.0-600.0 finer gr., bleached, fine diss py.
																			600.0 - CONTACT, 50°CA, arg w chl slip.
600	610	10.0	10.0	9049	.18	.095	.4	✓ v. good	2	M		W		M		W	1+		BRECCIA, Coarse; lt. grey, mottled, qtz and sil. frags, angular in lt gr f.g. arg alt matrix, f.g. diss py, diss cpy, good moly. 606.0-611.5 fractured ~25°CA.
610	620	10.0	10.0	9050	.46	.100	.45	✓ good	2	M		W Hi	W	M		W	1+		611.0-613.0 darker, more dioritic matrix, mod sil, dec. fract, inc cpy, dec. frags.
620	630	10.0	10.0	9051	.49	.092	.7	✓	2	M		W	M	M		W	2+		
630	640	10.0	10.0	9052	.56	.080	.5	✓	2			W	M	M S		W	1+		Fairly massive, erratic good moly.
640	650	10.0	10.0	9053	.26	.095	.5	✓	2			M Hi	M	M S		W	1+		V.f.g. diss py. 644.0-649.0 st. fract, wk chl., inc. arg alt.
650	660	10.0	10.0	9054	.27	.042	.6	✓	2			S Hi	W	S			2-	Tr ?	653.5 3" qtz-ca-chl v. w. slip 80°CA. 653.5-659.0 fract, st. arg alt, min chl.
660	670	10.0	10.0	9055	.88	.079	.8		2			S Hi	W	S			2+		666.0-670.0 st. fract.

AREA CASINO CREEK
DIP -50°
AZIMUTH N 46° 30' E

NORTHING 835,901.5 N
EASTING 365,891.4 E
ELEVATION 3885.9

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED AUG 20, 1973 HOLE No. P-49
DATE COMPLETED AUG 31, 1973 PAGE No. 8 of 12
LENGTH 1001 FT. CORE SIZE 122-747 NQ
747-1001 BQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION							Cu		DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K. SPAR	cpy	cc	
																			COARSE BRECCIA
670	680	10.0	10.0	9056	.70	.062	.8	✓	2⁻			Hi 60	M	W M		W M	2⁺		674.0-679.0 occ. post min slips w. moly + py smear.
																			LOST WATER RETURN
680	690	10.0	10.0	9057	.85	.087	1%		2⁻	W		Hi	M	M		W	3	Tr ?	685.0-686.0 F.Z. (?) Earthy sandy sect high * CA, inc arg below
690	700	10.0	10.0	9058	.66	.130	+1%		1⁺			W	M	M		W M	3⁺		Dec. fract, cpy as coarser diss.
700	710	10.0	10.0	9059	.96	.078	+1%		1⁺			W	W M	M		W	3⁺		707.0-709.0 chl alt, coarse diss cpy.
710	720	10.0	10.0	9060	.50	.087	+1%	✓	2⁻			W	M	M W		W	3⁺		714.0-715.0 Qtz-carb matrix; 2ndary bx? 717.0-718.0 Earthy arg alt.
720	730	10.0	10.0	9061	.41	.050	.7		2⁻	W		W	M	W		W	2⁺		720.0 Start of more consistant qtz-ca in matrix, cpy dec. as fine diss but inc. as coarse clusters.
730	740	10.0	10.0	9062	.49	.052	.6		1	W		M Hi	M	M		W	2		730.0-738.0 inc. fract high * CA.
740	747	7.0	7.0	9063	.48	.050	.7		<1	W		W	M W	M		W	2		745.5 - Contact BIOTITE PORPHYRY; massive, w. 1/8" bxp. phenocrysts, well diss. fine cpy, arg alt.

NQ CORE

AREA CASINO CREEK
DIP -50°
AZIMUTH N 46° 30' E

NORTHING 835,901.5 N
EASTING 365,891.4 E
ELEVATION 3885.9

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED AUG 20, 1973
DATE COMPLETED AUG. 31, 1973
LENGTH 1001 FT.

HOLE No. P-49
PAGE No. 9 of 12
CORE SIZE 122-747 NQ
747-1001 BQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION							Cu	
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	cPY	cc
747	760	13.0	6.5	9064	.27	.035	.6		1	MS		W	M	WM		W	2	
760	770	10.0	10.0	9065	.34	.047	1%		<1	VS		W	M	W		M	3	Tr ?
770	780	10.0	10.0	9066	.31	.045	.7		<1	S		W	M	W		M	2+	
780	790	10.0	10.0	9067	.22	.043	.4		<1	S		W	M	W	W	S	2-	
790	800	10.0	10.0	9068	.18	.047	.4	✓	1+	S		W	M	W		S	1+	
800	810	10.0	10.0	9069	.33	.035	.4		1	M		W	W	M		M	1+	
810	820	10.0	10.0	9070	.39	.042	.5		1	M		W	W	M	M	M	1+	
820	830	10.0	10.0	9071	.26	.038	.4		<1	M		W	W	M	W	M	1+	

DESCRIPTION

BIOTITE PORPHYRY, arg alt.
747.0-754.0 Recovery 2.5 (Driller's error)
754.0 - Contact
COARSE BRECCIA
BQ CORE
Decreased frags, arg alt near contact, inc sil w. depth, wk Kspar, massive.
Inc. Kspar, v.f.g. diss py + cpy.
774.0-774.5 Rhyo. dyke, 6", f.g. 45°CA.
785.0 - Contact
QUARTZ DIORITE
790.0 - Contact.
COARSE BRECCIA
Increasing py.
Noticable decrease of frags, wk chl., dec. cpy.
801.0-801.5 1" Kspar v. 30°CA.
805.0 - contact
805.0-810.0 APLITE f.g. sil, diss cpy.
810.0 - contact.
COARSE BRECCIA
813.0-814.0 FELDSPAR PORPHYRY - bio, arg alt.
Inc. arg alt.
827.5-829.0 QUARTZ DIORITE

AREA CASINO CREEK
DIP -50°
AZIMUTH N 46° 30' E

NORTHING 835 901.5 N
EASTING 365,891.4 E
ELEVATION 3885.9

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED AUG. 20, 1973
DATE COMPLETED AUG. 31, 1973
LENGTH 1001 FT

HOLE No. P-49
PAGE No. 10 of 12
CORE SIZE 122-747 NQ
747-1001 BQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION							Cu	
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC
830	840	10.0	10.0	9072	.25	.055	.6		1	M		W	W	M	W	M	2⁻	
840	850	10.0	10.0	9073	.24	.053	.35		1	M		W	W	M	M	M	1	
850	860	10.0	10.0	9074	.25	.037	.4		1	MS		S Hi	W	W	M	MS	1⁺	
860	870	10.0	10.0	9075	.23	.053	.5		1	M		St Hi	W	WM	M	M	1⁺	
870	880	10.0	10.0	9076	.22	.028	.3		1	M		S Hi	W	M	M	M	1	Tr ?
880	890	10.0	10.0	9077	.21	.020	.25		1	S		W	WM	W	S	M	1	
890	900	10.0	10.0	9078	.19	.010	.4		<1	S		W	M	M		M	1⁺	
900	910	10.0	10.0	9079	.22	.017	.3		1⁺	M		W	M	M		M	1	

DESCRIPTION

COARSE BRECCIA

833.0 - 834.0 arg bio alt.

842.0 - 843.0 FELDSPAR PORPHYRY
843.0 - 847.0 Mixed dio and bx, bio, arg alt, dec. cpy.
From 847.0 Sil bx w. Kspar alt and cpy.

855.0 - 879.0 Strongly fract, 45 - High & CA, occ. qtz-dio and feld. porph sects.

879.0 - Contact

BIOTITE DIORITE fg. heavy fine biotite, sil, some diorite sects.
(May by contact alteration)

892.5 - contact

FELDSPAR PORPHYRY 1/8" to 1/4" fspar phenocrysts w. arg alt., in fg. sil. matrix, fine grained diss bio.

AREA CASINO CREEK
DIP -50°
AZIMUTH N 46° 30' E

NORTHING 835,901.5 N
EASTING 365,891.4 E
ELEVATION 3885.9

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED AUG 20, 1973 HOLE No. P-49
DATE COMPLETED AUG 31, 1973 PAGE No. 11 of 12
LENGTH 1001 FT. CORE SIZE 122-747 NQ
747-1001 BQ.

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION							Cu	
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC
910	920	10.0	10.0	9080	.21	.012	.3		<1	M		W	W	M	M	M	1	
920	930	10.0	10.0	9081	.27	.045	.2	✓ good	1⁻	W		W	W	M	M	M	<1	
930	940	10.0	10.0	9082	.19	.083	.35	✓ good	1	W		W	W	M S	M	M	1	
940	950	10.0	10.0	9083	.53	.030	.4	✓	1	W		W	W	M S	M	S	1	
950	960	10.0	10.0	9084	.64	.052	.8	✓	1⁻	M		W	W	M	W	S M	2⁺	
960	970	10.0	10.0	9085	.31	.012	+1%		1⁺	W		45	W	M	M	S M	3⁺	
970	980	10.0	10.0	9086	.45	.035	.7		1	W		W 45 60	W	M	M	M	2⁺	
980	990	10.0	10.0	9087	.27	.033	.4		1⁺	W		W	W	S		W	2⁻	

DESCRIPTION

917.0 = contact

COARSE BRECCIA

Breccia siliceous.
Sulphides f.g. diss.

Narrow dio sects.

— — — Gradual Change — — —

MIXED QUARTZ DIORITE BRECCIA

Occ. angular frags. in varied matrix from m.g. quartz diorite to f.g. sil. as previous; erratic qtz and ca v's to 980.0. Cpy as diss and erratic tbs.

980.0 Bio-chl fract 45°CA

984.0 Start finer gr. arg. alt, bx becomming finer, f.g. diss cpy and py.

AREA CASINO CREEK
DIP -50°
AZIMUTH N 46°30' E

NORTHING 835,901.5 N
EASTING 365,891.4 E
ELEVATION 3885.9

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED AUG 20, 1973
DATE COMPLETED AUG 31, 1973
LENGTH 1001 FT.

HOLE No. P-49
PAGE No. 12 of 12
CORE SIZE 122-747 NQ
747-1001 BQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION							Cu	
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	cPY	cc
990	1001	11.0	11.0	9088	.22	.031	.35		1	W		W	W	S		W	1+	

DESCRIPTION

MIXED QUARTZ DIORITE BRECCIA

---END OF HOLE 1001'0, AUG 31, 1973---

RECEIVED
1 MAR 1974
MINING RECORDER'S OFFICE
WHITEHORSE, Y.T.

AREA CASINO CREEK
DIP -50°
AZIMUTH S 46° 30' W

NORTHING 836,715.8 N
EASTING 366,181.9 E
ELEVATION 3846.1

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED SEP. 4, 1973
DATE COMPLETED SEP. 10, 1973
LENGTH 997 FT.

HOLE No. P-50
PAGE No. 1 of 12
CORE SIZE NQ

See also Assay Summary Log

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	cpy	cc	
00	105	105	—																OVERBURDEN, cased.
105	120	15.0	8.5	9101	.27	.005	.4		1			—		S			Tr	M	109 QUARTZ DIORITE 105.0–109.0 m.g., leached, arg. alt, mod hem, sl. jar.
120	130	10.0	8.7	9102	.19	.003	.4		<1			W 40	W	S			Tr	M	109.0–115.0 lt grey, earthy, partly leached, 2% py coated with cc.
130	140	10.0	10.0	9103	.10	.002	.2		1			M 45	W	M			Tr	Tr	115.0–120.0 earthy arg alt, brownish, < 1% py, poss inc c.c., tr cpy, sl. remn. bio.
140	150	10.0	10.0	9104	.10	.002	.25		1+	W/M		W 40	W	M		W	<1	—	125.0 Dec. earthy arg alt. and leaching, Qtz Dio: mg., wk qtz, hbld, bio., cc on py. 127.0–130.0 st. earthy arg alt. 140.0–141.0 cc. on fracts 141.0–141.5 irreg. ca fracts. 141.5 Dec. fract, Qtz Dio. sl. gneissic approx 45° CA, wk to mod sil., wk Kspar, sl. ine cpy.
150	160	10.0	8.0	9105	.18	.005	.2		<1	W		M/W 40	W	M Gl			<1	Tr	150.5–153.5 well fract. 40° CA. 156.0–157.0 st. fract., earthy arg. alt. 157.0 Contact, pyritic
160	170	10.0	8.0	9106	.41	.005	.4		<1			S Hi		S			<1	W	157.0–161.5 2" Recovery, pyritic contact zone lost. APLITE arg alt, cc. in fracts, fine diss py and cpy, weak to mod fract high ∠ CA.
170	180	10.0	10.0	9107	.16	.007	.25		2			M Hi		S			<1	Tr	179.0 Contact 60° CA QUARTZ DIORITE

AREA CASINO CREEK
DIP -50°
AZIMUTH S46°30'W

NORTHING 836,715.8 N
EASTING 366,181.9 E
ELEVATION 3846.1

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEP. 4, 1973 HOLE No. P-50
DATE COMPLETED SEP. 10, 1973 PAGE No. 2 of 12
LENGTH 997 FT. CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC	DESCRIPTION
180	190	10.0	10.0	9108	.15	.002	.3		2			S 50	W	S			1	T_r^+	179.0-190.0 strong bio., cpy w min cc on fracts, 186.0-190.0 weak breccia; Qtz dio frags w. aplitic matrix 3% py in matrix.
190	200	10.0	10.0	9109	.23	.005	.3		2			S	W	S			<1	T_r^+	189.0-191.5 st. fract, inc. arg. alt. 191.5-198.0 v. st. fract, wk cc. on fracts 198.0-202.0 st. arg alt, bleached, partial loss of mafics.
200	210	10.0	10.0	9110	.24	.008	.2		1			M Hi	W	S			<1		202.0-205.0 st. inc. mafics, sl. inc cpy. 205.0-210.0 st. arg. alt to earthy.
210	220	10.0	10.0	9111	.39	.030	.3		2			M 45	W	S			<1		214.0 Contact. APLITE m.f.g., mottled, finely diss py and min cpy, st. arg. alt., inc. @ 220-221 to earthy, inc. py and ser. w. depth.
220	230	10.0	10.0	9112	.18	.003	.4		2			M	S	S	W		1*		221.0 Contact. QUARTZ DIORITE, arg. alt. 227.0 Contact. APLITE
230	240	10.0	10.0	9113	.31	.007	.3		1			M	S/W	S	M		<1		233.5 Contact QUARTZ DIORITE Heavy biotite. 237.0-241.0 fracturing // CA.
240	250	10.0	10.0	9114	.24	.008	.3		1	W		M 70	W	S		W	1		242.0-244.0 tr. bornite, coarser cpy. 246.0-249.0 inc. arg. alt.
250	260	10.0	10.0	9115	.22	.012	.5		1	M		W 30				M	2*		251.0-254.0 Qtz. Dio. finer gr., inc. sil. and K spar alt, min inc. cpy. 256.0-259.0 gypsum vng // CA.

AREA CASINO CREEK
DIP -50°
AZIMUTH S 46° 30' W

NORTHING 836,715.8 N
EASTING 366,181.9 E
ELEVATION 3846.1

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEP. 4, 1973 HOLE No. P-50
DATE COMPLETED SEP. 10, 1973 PAGE No. 3 of 12
LENGTH 997 FT. CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC	
260	270	10.0	10.0	9116	.25	.015	.35		<1	M		W	W	M		M	1		QUARTZ DIORITE Inc. bio, dec. py, inc cpy:py ratio, occ. ca-gyp. fracts with slip.
270	280	10.0	10.0	9117	.22	.005	.2		2	–		S Lo	–	S Chl		–	<1		272.5 – 287.0 strong fract, chl. slips, low ∠ CA. Pyrite largly on fracts.
280	290	10.0	10.0	9118	.24	.006	.25		2	– M		S Lo	– W	S Chl M		– M	<1 –	Tr?	287.0 Contact APLITE, f-m.g. mod sil., f.g. diss py + cpy. 293.0 Contact QUARTZ DIORITE
290	300	10.0	10.0	9119	.26	.005	.25		1	– W		– S Lo	– W	– S Chl		– W	– <1		293.0 – 301.0 chloritic fract.
300	310	10.0	10.0	9120	.27	.031	.7		<1	M		M 45	W	M S		M	2		301.0 Inc. sil., inc cpy:py ratio.
310	320	10.0	10.0	9121	.22	.005	.7		1	M		W 45	W	M W		M	2		325.0 contact MIXED QUARTZ DIORITE BRECCIA qtz dio frags and sects plus other alt. frags in low mafic qtz-dio and bio. apl. matrix ; mod chl. alt, esp. w. fract., erratic moly, often as smears on fracts, occ. tr. bornite.
320	330	10.0	10.0	9122	.33	.007	.4		1⁻	W		W 45	W M	M		W	1		328.0 – 332.0 qtz dio w. st. arg alt.
330	340	10.0	10.0	9123	.26	.037	.5		1⁻	W		W 45	W	M		M	2⁻		337.0 – 446.0 Qtz dio, mod. Kspar alt.

AREA CASINO CREEK
DIP -50°
AZIMUTH S 46° 30' W

NORTHING 836,715·8 N
EASTING 366,181·9 E
ELEVATION 3846·1

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEP. 4, 1973
DATE COMPLETED SEP. 10, 1973
LENGTH 997 FT.

HOLE No. P-50
PAGE No. 4 of 12
CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	cPY	cc	
																			MIXED QUARTZ DIORITE BRECCIA
340	350	10·0	10·0	9124	·28	·038	·6		1	M		W	M W	M		M	2		346·0-347·0 st. ca. alt.
																			349·5-355·0 Earthy arg alt w. bx frags and finely diss py.
350	360	10·0	10·0	9125	·25	·052	·4		1	W		W 45	W	S			1+	T_2?	357·0-359·5 arg alt as above.
																			360·0 Start inc. Qtz Dio sects and frags
360	370	10·0	10·0	9126	·44	·067	·25		1⁻			W	W	M			1⁻	T_2?	
																			371·5-376·0 QUARTZ DIORITE
370	380	10·0	10·0	9127	·33	·033	·35		1			W 35	W	M	W	W	1	T_2?	
																			376·0-395·0 APLITIC MATRIX material, few frags, st. arg alt, pass. tr v.f.g. cc, finely diss Py and cpy.
380	390	10·0	10·0	9128	·42	·068	·45		1			W	W	S	W		1+	T_2?	
390	400	10·0	10·0	9129	·35	·060	·45		1			M 45 60	M	S	M		1	T_2?	395·0-405·0 inc. frags, chl., some ser, fine diss Py + cpy, tr cc?
400	410	10·0	10·0	9130	·31	·053	·3		1			M 40 60	W M	S	M		1⁻	T_2?	405·0 Inc. secondary biotite.
410	420	10·0	10·0	9131	·30	·033	·35		1⁻			W 50	M	S	M		1		413·5-415·5 st. arg alt of qtz-dio, irreg ca vng.

AREA CASINO CREEK
DIP -50°
AZIMUTH S 46° 30' W

NORTHING 836,715·8 N
EASTING 366,181·9 E
ELEVATION 3846·1

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEP. 4, 1973 HOLE No. P-50
DATE COMPLETED SEP. 10, 1973 PAGE No. 5 of 12
LENGTH 997 FT. CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	cPY	cc
420	430	10.0	10.0	9132	·28	·033	·4		1			W	M	S	M		2⁻	
430	440	10.0	10.0	9133	·18	·012	·3		2	W		W	M	S	S	W	1	
440	450	10.0	10.0	9134	·40	·063	·4		1	M		W	W	S	M		1⁺	
450	460	10.0	10.0	9135	·20	·058	·7		1	S		W Hi	M	S	W	M	2⁺	
460	470	10.0	10.0	9136	·14	·033	1%		1⁺	W		W	S	S		M	3⁺	
470	480	10.0	10.0	9137	·31	·042	1%		1⁺	W		W Δ5	S	S		M	3⁺	
480	490	10.0	10.0	9138	·28	·058	·7		1⁺	W		W	S	S		M	3⁺ 1	
490	500	10.0	10.0	9139	·20	·045	·25		1⁻	W		M	M	M		W	1⁻	

DESCRIPTION

MIXED QUARTZ DIORITE BRECCIA

421.0–429.0 Qtz dio sects w. earthy arg alt.

431.5 Contact

FELDSPAR PORPHYRY ⅛" fspar phenoxts, min bio to ser, wk sil. alt, occ. qtz v'ls 35°CA, fine diss py, tr cpy,

439.7 Contact.

MIXED QUARTZ DIORITE BRECCIA

440.5–443.0 sil. bx, diss moly, moly smears on fracts.

445.0–451.0 Qtz dio w. st. arg alt.

451.0–461.0 Fine Bx., mod sil, fine diss py, min cpy, occ. v'ls and bbs py.

461.0–465.0 Qtz Dio, weak sulphides.

465.0–485.5 Fine Bx., arg alt, st. ser alt, mod Kspar, well diss py and cpy.

478.0–480.0 irreg. ca vng and bx.

485.5 Contact

QUARTZ DIORITE, strong biotite, ca vts 30-60°CA, decreased sulphides.

486.5–487.5 APLITE dyke 45°CA w. finely diss cpy + py.

AREA CASINO CREEK NORTHING 836,715·8N

DIP −50° EASTING 366,181·9 E

AZIMUTH S 46° 30' W ELEVATION 3846·1

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEP. 4, 1973 HOLE No. P-50

DATE COMPLETED SEP. 10, 1973 PAGE No. 6 of 12

LENGTH 997 FT. CORE SIZE NQ

Logged by J.M. Carr

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC	
500	510	10·0	10·0	9140	·38	·077	·5	·08	1+		W 1/ft	30°	W	W					QUARTZ DIORITE SP2·0 Contact - sharp 35°CA. MIXED QUARTZ DIORITE BRECCIA Qtz dio. mg. 50%, fresh bio. Aplite 50% 40°, 70°CA.
510	520	10·0	10·0	9141	·30	·042	·5	·08	1+		W		M	W					515·0-516·0 4" qtz-ser arg shear w py, mo. sulphides diss and on fracts.
520	530	10·0	10·0	9142	·16	·032	·35	·05	<1		W	20°	M	W					
530	540	10·0	9·7	9143	·12	·035	·25	·05	1+		M 2/ft.	30° 50°	W	W					531·0-532·0 6" qtz-ser arg shear w. py, mo. ca vns. Qtz dio. chl., f-m. grained.
540	550	10·0	10·0	9144	·36	·025	·45	·03	1+		M 2/ft	35° Lo	W	M					545·0 2" qtz vs, sheared, min+
550	560	10·0	9·8	9145	·22	·105	·35	·1	1+		M		M	M					555·0-561 APLITE. 555·0-558·0 mostly qtz v's w. min+
560	570	10·0	10·0	9146	·13	·065	·3	·04	<1		W		W	W					Qtz Dio, partly f.g., diss sulph., ca on fracts. 566·0-570·0 mostly apl., diss. mo.
570	580	10·0	10·0	9147	·17	·053	·3	·08	<1	local	M			S		✓			KF in qtz v's, ca on fracts. Apl. local (irreg v's)

AREA CASINO CREEK NORTHING 836,715.8 N
DIP -50° EASTING 366,181.9 E
AZIMUTH S 46° 30' W ELEVATION 3846.1

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEP. 4, 1973 HOLE No. P-50
DATE COMPLETED SEP. 10, 1975 PAGE No. 7 of 12
LENGTH 997 FT. CORE SIZE NQ

Logged by J. M. Carr

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC	DESCRIPTION
580	590	10.0	10.0	9148	.27	.068	.25	.04	2		M		M	M					Qtz Dio. fresh bio. 589-590 Qtz v. py+, diss mo., shears, sulphides diss and in fracts.
590	600	10.0	10.0	9149	.24	.050	.30	.02	<1		W	Hi	M	M					Fol. of qtz dio. 80°CA. Shears inc. Qtz Dio. soft, arg, crumbly, fol // CA.
600	610	10.0	10.0	9150	.16	.045	.25	.03	<1		W		M	S					Ca v's shears 30°CA. sheared, fract+ Apl. local.
610	620	10.0	9.5	9151	.24	.060	.30	.05	1		W		M	M					618.0 post-sulphide slip 30°CA. 617.0-618.0 50% recov. - tube mislatched.
620	630	10.0	10.0	9152	.18	.075	.30	.10	1		M		S	S					Qtz fills bx'd fracts (local Q bx) 620.5-624.0 Apl., diss sulph. 625.5 4" Apl.
630	640	10.0	10.0	9153	.27	.063	.60	.07	2	✓	S		S						
640	650	10.0	10.0	9154	.40	.077	.50	.07	2	✓	S	Lo 40°	M	W					Red hem on slips. Chl. shears. 646.0-652.0 Qtz-v bx w. diss mo, 1/8"-1/2" qtz vs. mo. on fracts.
650	660	10.0	10.0	9155	.31	.058	.30	.05	1+										Qtz dio partly fresh Qtz v. bx local Sulphides mostly diss.

AREA CASINO CREEK
DIP -50°
AZIMUTH 246°30' W

NORTHING 836,715.8 N
EASTING 366,181.9 E
ELEVATION 3846'1

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEP. 4, 1973 HOLE No. P-50
DATE COMPLETED SEP. 10, 1973 PAGE No. 8 of 12
LENGTH 997 FT. CORE SIZE NQ

Logged by J.M. Carr

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	CHL-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC	
660	670	10.0	10.0	9156	.19	.033	.4	.03	2	✓	M		S	M					QUARTZ DIORITE 662.0-664.0 sil+, py+ 664.0-667.0 sil+, qtz v w py⁻, cpy⁻ mo; 664.0 bl. clay slips 30°CA. 667.0 grey seric gouge.
670	680	10.0	10.0	9157	.20	.068	.4	.06	1		M		M	W					672.0 8" apl. 40°CA, Qtz (KF) veins. Ca+ fracts, diss sulphides. Qtz Dio. partly fresh⁻ Ca+, F . Apl. 6" 70°CA.
680	690	10.0	10.0	9158	.24	.194	.25	.05	<1		M		M	W					
690	700	10.0	10.0	9159	.13	.035	.5	.04	1		M	45	M	W					Qtz v's 1/8" Post. min slips 55°, 75°CA. Sulphides on fracts and diss.
700	710	10.0	10.0	9160	.25	.042	.5	.02	1		M	45 75	W	W					Qtz v's w bx'd walls, w cpy., 1/4"-3"
710	720	10.0	9.5	9161	.18	.030	.2	.06	<1		M 1/8"	35 75	M Chl.	M					Qtz dio med.-coarse Apl. moly on slips. Qtz v. < 3" w mo.
720	730	10.0	10.0	9162	.17	.020	.35	.04	<1		M	50	W	W					721.0 Apl. + qtz v (sheared) sulph. partly on fracts. 729.5 Apl.
730	740	10.0	10.0	9163	.13	.048	.35	.02	<1		M	Lo 70	M Chl.	W					738.0 YUKON GP. HORNFELS in contact w. m-cg. Qtz Dio foliation 55°CA. Qtz (KF) v's irreg. in bx'd Qtz dio & hfls.

AREA CASINO CREEK
DIP -50°
AZIMUTH S 46° 30' W

NORTHING 836,715.8 N
EASTING 366,181.9 E
ELEVATION 3846.1

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEP. 4, 1973 HOLE No. P-50
DATE COMPLETED SEP. 10, 1973 PAGE No. 3 of 12
LENGTH 997 FT. CORE SIZE NQ

Logged by J.M. Carr

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	CHL. QTZ. –SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	cPy	CC	
740	750	10.0	9.8	9164	.21	.053	.35	.05	<1		M	Lo	W	W					QUARTZ DIORITE AND YUKON GP. HORNFELS Qtz dio fol. 90°CA., irreg qtz-v bx w. moly. 740.0 8" Apl.
750	760	10.0	10.0	9165	.18	.035	.35	.07	<1		M⁻		M Chl.	W					Qtz. Dio partly sheared, chl. sulphides diss. and near fracts. 754.5 apl.
760	770	10.0	10.0	9166	.24	.038	.45	.04	<1		M 2/ft.		W	W		✓			Qtz Dio and Hfls. 1/8"-2" qtz v's, fract., ca v's, ep⁻, sulphides diss and on fracts, cpy partly v.f.g., fresh bio and KF.
770	780	10.0	10.0	9167	.28	.042	.3	.05	1	✓	M	Lo 45 75	M	M		✓			Qtz. Dio partly soft, arg. Hfls present. Apl. v.
780	790	10.0	10.0	9168	.18	.042	.25	.07	1		M 2/ft.		W	M		✓			Qtz Dio and Hfls Qtz (KF⁻) < ½" Apl.
790	800	10.0	10.0	9169	.18	.048	.2	.02	<1		W 1/ft.		M	M		✓			Unmin. ca v's, Apl. slips 75°CA.
800	810	10.0	10.0	9170	.16	.182	.25	.05	1		M 2/ft.	50 Hi	W	M		✓			Qtz Dio, partly f.g., dk, diabasic. qtz v's partly filling bx'd walls.
810	820	10.0	10.0	9171	.17	.102	.3	.05	<1		M	35	W (ser)			✓			Qtz Dio, as above (30%) apl.) 810.0-813.0 apl. 816.0 10" apl-pegmatite w. offset qtz v's, contacts 60°, 80°CA. qtz v's < ½" mo on fracts.

AREA CASINO CREEK NORTHING 836,715.8 N
DIP -50° EASTING 366,181.9 E
AZIMUTH 246°30' W ELEVATION 3846.1

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEP. 4, 1973 HOLE No. P-50
DATE COMPLETED SEP. 10, 1973 PAGE No. 10 of 12
LENGTH 997 FT. CORE SIZE NQ

Logged by J.M. Carr

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	CHL.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC	
820	830	10.0	10.0	9172	.13	.035	.15	.02	1		W		W	W					Qtz. Dio, w. Hfls & Apl. 825.0-830.0 schisty dk dio-hfls, fol. 70°CA. Qtz v's, hairline.
830	840	10.0	10.0	9173	.12	.027	.15	.03	<1		M		M	M					Qtz Dio partly soft partly diabasic Apl. Qtz v's < 2", barren or poor min.
840	850	10.0	10.0	9174	.14	.050	.15	.03	<1		W		W	W		✓ (fresh dio)			Qtz Dio as above; the diabasic type is magnetic 842.0-844.0 shears 844.0 10" Apl. 70°CA.
850	860	10.0	9.7	9175	.14	.032	.25	.02	<1		W		M	W					Qtz Dio. as above ca v's +
860	870	10.0	10.0	9176	.10	.017	.2	.04	<1		M (wk)		W	W		✓			Qtz Dio, fg. w. m.g. Qtz Dio, sharp blocky contacts, Apl. Qtz-v's 2-stage.
870	880	10.0	10.0	9177	.09	.047	.15	.08	<1		M 2/ft	35 75	W	M		✓			Qtz. Dio m.g.; partly soft, crumbly. 870-872. Apl.; mo+ in qtz v's. qtz v's 1/16"-1/8" w. mo. chl. shears 20°CA.
880	890	10.0	10.0	9178	.06	.042	.1	.06	<1		M	Lo 30	W	M					slips 15°CA.
890	900	10.0	10.0	9179	.12	.052	.15	.05	<1		W 1/ft.	Lo 30	W	W		✓			896 and 898 Apl. 75°CA. qtz v's <4", poor min. 899.0-900.0 qtz v. bx adjoining chl. shear 10°CA.

AREA CASINO CREEK
DIP -50°
AZIMUTH S 46° 30' W

NORTHING 836,715·8 N
EASTING 366,181·9 E
ELEVATION 3846·1

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEP. 4, 1973 HOLE No. P-50
DATE COMPLETED SEP. 10, 1973 PAGE No. 11 of 12
LENGTH 997 FT. CORE SIZE NQ

Logged by J. M. Carr

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC	
900	910	10·0	10·0	9180	·12	·140	·2	·07	1		M		W	W		✓			Qtz Dio partly mg., partly f.g., fresh⁻. 900·0 sheared. 907·0-908·0 qtz (KF⁻) v. w. mo⁺.
910	920	10·0	10·0	9181	·14	·030	·1	·05	1		W (w K)		M	M		✓			Hfls dk, bio⁺, fol'd. 50-60°CA, partly apl. texture (greywacke) chl shears
920	930	10·0	10·0	9182	·12	·033	·1	·05	1		W	20 Δ5 70	M	W					fol (schisty) 70°CA moly diss and on fracts. chl shears Δ5°CA.
930	940	10·0	10·0	9183	·14	·068	·1	·04	<1	✓	W (w K)		W	W		✓			Qtz Dio 932·0-935·0 hfls bx (qtz-KF⁻) filling, local apl. 935·0 qtz-dio v's in hfls ca v's Δ0°CA, poor min irreg qtz v's.
940	950	10·0	10·0	9184	·14	·053	·15	·04	<1		W (w K)		M chl.	W		✓			Hfls. (mainly), fol 30-80°CA, (chl) post-mo slips 20°CA 945·5 Qtz Dio: sharp discord. contact local Apl.
950	960	10·0	10·0	9185	·25	·063	·15	·05	<1		W 1/ft		M chl.	W					951·0 sheared, soft Qtz Dio w. local Hfls, apl. local. diss mo.
960	970	10·0	10·0	9186	·12	·088	·2	·07	1		W 1/ft.	Hi Lo.	W	W		✓			Apl - pegmatitic v's qtz v's <1" w moly in or nearby.
970	980	10·0	10·0	9187	·17	·047	·2	·07	1		M 2/ft.		M	W		✓			chl slips. ca v's.

AREA CASINO CREEK NORTHING 836,715·8 N

DIP -50° EASTING 366,181·9 E

AZIMUTH S 46°30' W ELEVATION 3846·1

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEP. 4, 1973 HOLE No. P-50

DATE COMPLETED SEP. 10, 1973 PAGE No. 12 of 12

LENGTH 997 FT. CORE SIZE NQ

Logged by J.M. Carr

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC	
980	990	10·0	10·0	9188	·12	·097	·25	·10	<1		W 1/ft	45 Hi	W	W		✓			Hfls, Qtz. Dio, and Apl. Hfls schisty, bio+; qtz dia partly f.g., dlc qtz v's <1" Grd.(?) from 984; lt col., mg.
990	997	7·0	7·0	9189	·10	·100	·15	·06	<1		W 1/ft.	30 75	W	W		✓			Grd w. bx'd hfls local, decreased shearing. Apl.
																			-----END OF HOLE 997' IN GRD + APL; SEP 10/73-----

RECEIVED
1 MAR 1974
MINING
RECORDER'S OFFICE
WHITEHORSE, Y.T.

AREA CASINO CREEK
DIP −90°
AZIMUTH —

NORTHING 837,379.0 N
EASTING 364,581.5 E
ELEVATION 3989.8 FT.

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED SEPT. 12, 1973 HOLE No. P-51
DATE COMPLETED SEPT. 14, 1973 PAGE No. 1 of 4
LENGTH 501 FT. CORE SIZE NQ

See also Assay Summary Log

Logged by J.M. Carr

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2 H C S	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	cPY	CC	
0 0	90																		OVERBURDEN
90	105	150	15.0	9301	.02	.022	.03	.04	T P U 1 6 3		A/ft (hair-line)	Lo 60°						? Tr @ 100'	70.0-75.0 minor core: f-m bio Qtz Dio w lim in fracts Qtz. Dio f-m to 91.0 contact. GRD m.g from 91.0, porph. Apl. local; mang. wad.
105	120	15.0	14.2	9302	.01	.012	.03	.04	Py 1 3 6 1 5 4			Irr.		S?					GRD f.m. qtz v's, ≤1", vuggy, mo.
120	135	15.0	15.0	9303	.06	.043	.03	.04	Py 3 3 4		3/ft.	Lo 65°		W		✓			GRD, m.g. 125.0 APL 134.5 1" clay adjacent to qtz-lim(py) v.; tr. molyochre?
135	150	15.0	15.0	9304	.16	.017	.03	.04	Py 5 2 3		6/ft	35° AS°							APL
150	165	15.0	15.0	9305	.14	.073	.25	.04	Py+ 6 2 2		3/ft	30° 75° Hi	M	M			M	W	152' cc coating, tr mal. 158.0 GRD (aplitic) qtz v's <½"
165	180	15.0	15.0	9306	.16	.040	.25	.04	4 2 4		2/ft.			M		✓	W	W	GRD sulphides v.f.g. 176.0-178.0 min mal.
180	195	15.0	15.0	9307	.18	.093	.25	.08	Lim tr Py+	M	3/ft.	75°	W	M			W	W	inc. moly.
195	210	15.0	15.0	9308	.24	.042	.25	.07	Py 1			60°	M	W			W	W	198.0-205.0 Apl. 205.0-213.0 Qtz dio, f.g., fresh bio 206' qtz v's <½" w. moly slips.

CAP 152' SUP 206' SUP

AREA CASINO CREEK NORTHING 837,379·0 N

DIP −90° EASTING 364,581·5 E

AZIMUTH — ELEVATION 3989·8 FT

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEPT. 12, 1973 HOLE No. P-51

DATE COMPLETED SEPT. 14, 1973 PAGE No. 2 of 4

LENGTH 501 FT. CORE SIZE NQ

Logged by J.M. Carr

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	cPY	cc	DESCRIPTION
210	225	15·0	14·6	9309	·10	·072	·15	·07	1	M	2/ft.	30° Hi 60°	M	W			W		213·0 GRD m.g., H.col, w KF tr diss tourmaline.
225	240	15·0	15·0	9310	·10	·067	·15	·07	>1	M	3/ft.	70° Hi Lo	M/S	M			W	Tr?	GRD abundant moly.
240	255	15·0	15·0	9311	·12	·067	·2	·05	1		3/ft.	Hi Lo	M	W			W		GRD bio partly fresh qtz v's < ½" w. py, mo. sulphides fract. filling and diss.
255	270	15·0	15·0	9312	·08	·052	·2	·04	1			45°		Chl	✓		W		GRD m.g., 15% dk min of irreg shape (bio ≥ hb) KF 10-15%; variable foliation; prob. K-latassin GRD (long hbs present tho partly gone to 2nd bio. local f.g. rock (bio rich), local apl (2")
270	285	15·0	15·0	9313	·12	·035	·25	·04	1			70° 50°	M	M chl M		✓	W		272·0-277·0 Porph. Aplite (80°CA)
285	300	15·0	15·0	9314	·11	·032	·15	·04	1		3/ft.		M			✓	W		277·0 Qtz Dio / GRD (w. KF) f.g. bio; subaplitic texture, inhomog.- cut by Apl. (lower in hole f.g. Qtz Dio. cut by and enclosed by m.g. GRD) slender qtz (KF) v's. f.g. "Qtz-Dio." (cont.) - bio rich parts make foliae. qtz v's < ½", vuggy. KF-qtz patches and lenses in f.g. qtz-dio.
300	315	15·0	15·0	9315	·15	·033	·2	·04	1		2/ft.	30° 60°	M			✓	W		tr. red hem on F (2ndy) 313·0 ½" grey gouge (low ∠CA) w. ca. (post py slip)
315	330	15·0	15·0	9316	·09	·042	·15	·04	1		2/ft.		W	W chl W		✓?	W		"Mixed" - dk f.g. "Qtz Dio" & m.g. GRD (fol'd 40-65°CA) m.g. GRD has 20% dk mins; f.g. "Qtz Dio" fol (bio" foliae 45°CA) 316·0 4" apl-pegm. 80°CA 328·5 clay slips low ∠CA Ca F inc.

AREA CASINO CREEK NORTHING 837,379·0 N

DIP -90° EASTING 364,581·5 E

AZIMUTH — ELEVATION 3989·8 FT.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEPT. 12, 1973 HOLE No. P-51

DATE COMPLETED SEPT. 14, 1973 PAGE No. 3 of 4

LENGTH 501 FT CORE SIZE NQ

Logged by J.M. Carr

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC		
330	345	15·0	15·0	9317	·05	·047	·1	·05	1		1+/ft.	40° 75°					W			"Mixed" as previous : (hybrid Klotassin GRD?) but mainly m.g. GRD. Aplite local, hi $ CA tourmaline tr, 2ndy hem tr qtz (KF⁻) v's Ca⁺ slips low $ CA
345	360	15·0	15·0	9318	·06	·033	·1	·04	1		<1/ft.						W			GRD: fol'd 40° CA (bio⁺⁺ foliae) Apl ½" 30° CA qtz v's partly vuggy, w. moly. tourmaline ~ diss.
360	375	15·0	15·0	9319	·05	·047	·15	·05	1+		1/ft.		W/M	M (bio → chl) W			W			"cleaner" GRD than previous, partly f.g. Apl. local Py filled fracts > ⅛", vuggy
375	390	15·0	15·0	9320	·06	·050	·1	·05	1		2/ft.		S	chl W			W			As previous 385·0 - 409·0 : ser, grn alt. plag (esp. near gougy slips 20° CA) qtz v's w. ser envelopes, chl'd, diss cpy outside ser envelopes
390	405	15·0	15·0	9321	·10	·060	·1	.07	>1		1-2/ft.	40° 65° Lo	S				W			"Mixed" as previous, mainly mg GRD bio → ser. qtz v's mostly 1/16", vuggy w py, mo, 394·0 py⁺⁺ in 2" v. w qtz, mo.
405	420	15·0	15·0	9322	·11	·057	·15	·05	1 or 2		2/ft	45° 75°	S -409 W/M				W			GRD, m.g., becomes fresher from 405' (18% dk min) qtz v's < 1"
420	435	15·0	15·0	9323	·07	·023	·2	·05	1 or 2		2/ft.	40° 75°	M chl W/M			✓	✓	M		bio, KF fresh, foliation 35° CA local apl 40° CA
435	450	15·0	15·0	9324	·07	·063	·2	·04	1 or 2		4/ft.	Lo 45° Hi	M chl M	W				M		foliation 40° CA Ca⁺ vts. sulphides 1-2%, partly on "dry" fracts.

AREA CASINO CREEK
DIP -90°
AZIMUTH —

NORTHING 837,379.0 N
EASTING 364,581.5 E
ELEVATION 3989.8 FT.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEPT. 12, 1973 HOLE No. P-51
DATE COMPLETED SEPT. 14, 1973 PAGE No. 4 of 4
LENGTH 501 FT. CORE SIZE NQ

Logged by J. M. Carr

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	cPY	CC	
450	465	15.0	14.7	9325	.11	.037	.15	.04	1		3/ft.	30°	M/S chl M	W			W		GRD, m.g. sulphides 1%
465	480	15.0	15.0	9326	.14	.047	.15	.05	1 or 2		S/ft.	Lo to 40°	S chl M				W		468.0 1" lens of py in qtz.
480	495	15.0	15.0	9327	.11	.030	.12	.04	1		3/ft.	30° 45°	M chl w/M	W			W		
495	501	6.0	6.0	9328	.10	.040	.12	.05	1								W		---END OF HOLE 501' IN GRD, SEPT. 14, 1973 ----

RECEIVED
1 MAR 1974
MINING
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WHITEHORSE, Y.T.

AREA "WEST PIT" NORTHING 636,520.5 N
DIP -90° EASTING 362,369.7 E
AZIMUTH — ELEVATION 4054.9 FT.

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED SEPT. 16, 1973 HOLE No. P-52
DATE COMPLETED SEPT. 19, 1973 PAGE No. 1 of 5
LENGTH 622 FT. CORE SIZE NQ

See also Assay Summary Log

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2 (JAROSITE / HEMATITE / GOETHITE)	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	cpy	cc	
00	101	101.0	—																OVERBURDEN
101	120	19.0	19.0	9351	.03	.012	.1		B 1 1		W	W M	M	S					FINE BRECCIA : frags. poss. Apl. in arg alt matrix, occ. free qtz grains, jar lim stain, some hem, wk goe, mod fract 30-45°CA, some ser from alt bio. 116.0-117.0 qtz-ser fract 40°CA
120	135	15.0	15.0	9352	.03	.012	.1		Tr py 7 2 1		W	M 20° 45°	M	S				Tr.	128.0-129.0 mottled, goeth, min cc. 131.0-133.0 qtz vng 45°CA. 133.0 - Contact
135	150	15.0	15.0	9353	.03	.008	.1		Tr py 6 1 2	M		S	M	S				Tr_2	APLITE st. sil, qtz, alt fspar, mg. 135.0-136.0 v. st. fract 139.0 Contact FELDSPAR PORPHYRY fspar phenoxsts in alt matrix, centre dk to black matrix, edges bleached. 145.0 Contact
150	165	15.0	12.5	9354	.08	.017	.5		2 py 7 2 1	M		S Lo	W	S		W/M	<1	W	APLITE, mg. mod sil. 152' increasing sulphides, dec limonites.
165	180	15.0	15.0	9355	.19	.032	.5		1+	M		M Hi	W	S			<1	W	169.0 Contact FSPAR PORPHYRY 1/8" fspar phenoxsts. 171.0-175.5 sil, jar lim stain, inc cc.
180	195	15.0	15.0	9356	.52	.043	.6		2	M		M Hi	W	S		M	<1	W	175.5 Contact APLITE mod sil. 175.5-180.0 weaker lim (jar), some cc. 185.0-186.0 jar-hem lim stain
195	210	15.0	15.0	9357	.53	.033	.6		2	M		M Hi	W	S		W	<1	W	206.0-207.0 shear 90°CA, w. st. jar-hem, earthy.

AREA "WEST PIT" NORTHING 836,520.5 N
DIP -90° EASTING 362,369.7 E
AZIMUTH — ELEVATION 4054.9 FT.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEPT. 16, 1973 HOLE No. P-52
DATE COMPLETED SEPT. 19, 1973 PAGE No. 2 of 5
LENGTH 622 FT. CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC	
210	225	15.0	15.0	9358	.41	.042	.35		3+	M		M Hi	W	S		W	<1	W	APLITE 212.0 inc sil, dec arg.
225	240	15.0	15.0	9359	.25	.043	.3		3-	M/S		M/S	W	S		M	<1	W	218.0-224.0 wk jar stain, inc arg alt, start dec cc. 224.5-229.5 inc K and sil. 229.5-236.0 inc arg alt and fract;
240	255	15.0	15.0	9360	.82	.042	.45		2	M/W		M Lo	W	S		W	<1	W	239.0-240.0 st. arg alt to earthy. 244.0-248.0 fract // CA w slip, cc, born, native Cu.
255	270	15.0	15.0	9361	.38	.038	.3		2	W		S Hi	W	S		W	<1	W	258.0-263.0 poss F.Z., st chl-arg alt, some 2ndary bio, wk cc. 263.0-271.0 st. fract, arg alt. 271.0-278.0 st. arg alt.
270	285	15.0	15.0	9362	.42	.094	.4		2	M/W		W Hi	W	S/M		W/M	<1	<1	278.0-279.0 St. qtz-Kspar vng, diss cc.
285	300	15.0	15.0	9363	.40	.139	.8	M	2	M		W ∠S 70	W	M		M	<1	1-	287.0 Contact "DIGESTED BRECCIA": highly alt, cont. Qtz Dio, Apl., some Fspar Porph, vaguely in frags, consisting largly as follows: 287.0-290.0 Qtz Dio, mg, Kalt, sil., min ser., low contact ∠5°CA 290.0-297.0 Aplite fg
300	315	15.0	15.0	9364	.41	.085	.3		1	W		M Hi	W	M chl S		W	<1	W	297.0-344.0 Qtz Dio (mainly) 344.0-412.0 Feldspar Porphyry (mainly) arg alt, occ bio 297.0-309.0 chloritic, mottled, dec sulphides. 310.0-312.0 inc cc, approx last of strong cc.
315	330	15.0	15.0	9365	.30	.052	.4		1+	W	W	M/S Hi	M	M chl		M	<1	W	318.0-322.0 inc cc on py, qtz-ser vng w Kspar 65°CA, Py vng w cc low ∠CA, scattered born, tr native Cu; below dec cc, mainly on fracts.

AREA "WEST PIT" NORTHING 836,520.5 N
DIP -90° EASTING 362,369.7 E
AZIMUTH — ELEVATION 4054.9 FT

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEPT. 16, 1973 HOLE No. P-52
DATE COMPLETED SEPT. 19, 1973 PAGE No. 3 of 5
LENGTH 622 FT. CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	cPY	cc
330	345	15.0	15.0	9366	.33	.045	.5		2	M		M 60	W	M		M	<1	W
345	360	15.0	15.0	9367	.32	.042	.8		2+	W		M	W	M		M	<1	W
360	375	15.0	15.0	9368	.31	.062	.4		3+	S		W 30	W	W/M		S	<1	W
375	390	15.0	15.0	9369	.32	.040	.4		3	S		W Lo	W	W/M		S	<1	W
390	405	15.0	15.0	9370	.26	.038	.35		3	S		W	S	W		S	<1	Tr
405	420	15.0	15.0	9371	.26	.050	.5		4	S		W	W	W		S	1⁻	Tr
420	435	15.0	15.0	9372	.20	.047	.6		4	S		W	W	W		S	1⁻	W
435	450	15.0	15.0	9373	.22	.035	.4		4	S		W	W	W		S	1⁻	Tr

DESCRIPTION

336.0 – 343.0 "DIGESTED BRECCIA" Qtz Dio. f.g., strong Kspar, 5–10% py. min cpy.

343.0 – 346.0 st. chlor., black, dec. sulphides.

346.0 – 412.0 mainly Feldspar Porphyry, arg alt, fspar phenoXsts, occ bio phenoxsts, inc cc. At top inc py to locally 5%, tr bor.

362.0 – 368.0 mod chl., dec. sulphides.

368.0 start strong sil, occ sil v's, diss py, cc more on fracts, occ v. fine bornite.

377.0 – 380.0 st. sil, qtz and py vng 45°CA, min cc., tr born, Cu Ox stain w. oxid. of py.

382.0 – 383.0 fract 20°CA w. Cu Ox (azurite), cc, native Cu.

384.5 – 387.0 fract //CA w tr Cu Ox, cc, tr native Cu.

395.0 – 398.0 f.g. (large fragment?) w. 5% py, tr cc.

402.0 Qtz vng 80°CA, tr born w. py., tr native Cu.

409.0 – 410.0 qtz vng hi ∠CA w. tr native Cu. Getting massive w. depth.

412.0 Contact.

APLITE m.-f.g. siliceous.

427.0 – 429.0 mottled, chl., sl. inc cpy, tr born.

444.5 Contact.

APLITE with Feldspar Porphyry Sections

AREA "WEST PIT" NORTHING 836,520.5 N
DIP -90° EASTING 362,369.7 E
AZIMUTH — ELEVATION 4054.9 FT

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEPT. 16, 1973 HOLE No. P-52
DATE COMPLETED SEPT. 19, 1973 PAGE No. 4 of 5
LENGTH 622 FT. CORE SIZE NQ.

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	<PY	cc	
450	465	15.0	15.0	9374	.43	.057	.5		5	S		W	W	W		S	1⁻	Tr	APLITE WITH FELDSPAR PORPHYRY Aplite f.g. sil. ; F.P.: sil, large phenoxsts in f.g. dk. matrix. Inc. cpy, st. diss py, min diss born, tr cc.
465	480	15.0	15.0	9375	.20	.047	.4		5	S		W	W	W		S	1⁻	Tr?	469.0-474.0 py fracts to 1/8", 30°CA.
480	495	15.0	15.0	9376	.27	.050	.25		3	S		W	W	M		S	<1	Tr⁻	474.0 Contact APLITE (?) Apl. similar to before, m.f.g., min bio.
495	510	15.0	15.0	9377	.24	.040	.2		2⁺	S		W	W	M		S	<1	Tr	499.0-501.0 sil, irreg qtz vng, tr cc.
510	525	15.0	15.0	9378	.28	.028	.3		2	S		W/M	W	M		M	<1	Tr	507.0-509.0 Quartz Diorite. 511.5 Contact FELDSPAR PORPHYRY 516.0 Contact. APLITE 517.5-519.0 st. fract, inc py, trcc. 521.5-522.0 py vng w cc coating // CA.
525	540	15.0	15.0	9379	.23	.033	.3		2	S		M	W	M		M/S	<1	Tr	cc dec to locally tr.
540	555	15.0	15.0	9380	.39	.035	.25		2	S		W 70°	W	W	M	M	<1	Tr	
555	570	15.0	15.0	9381	.35	.033	.25		2	S		W 45 70	W	M	S	M	<1		557.0-565.0 mottled, f.g. bio alt. 559.0-561.0 st. fract., arg alt. 563.0-564.0 f.g. felsic dykelets 60-80°CA.

AREA "WEST PIT" NORTHING 836,520·5 N
DIP −90° EASTING 362,369·7 E
AZIMUTH — ELEVATION 4054·9 FT

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEPT. 16, 1973 HOLE No. P-52
DATE COMPLETED SEPT. 19, 1973 PAGE No. 5 of 5
LENGTH 622 FT CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	<PY	cc
570	585	15·0	15·0	9382	·21	·038	·25		2+	S	W	M Hi	W	M	S	S	<1	Tr
585	600	15·0	15·0	9383	·15	·032	·2		2	S		W Hi	W	M	M	S	<1	
600	615	15·0	15·0	9384	·08	·013	·15		2−	S		W Hi	W	M		S	<1	
615	622	7·0	7·0	9385	·06	·012	·15		2−	S		W Hi	W	M		S	<1	

DESCRIPTION

570·0 Contact — APLITE
QUARTZ DIORITE
572·0 Contact — 572·0–573·0 fract w min cc, born, cpy
APLITE
Mottled.
579·0–582·0 irreg qtz vng, w. py, diss born.

SUP
HYP

FELDSPAR PORPHYRY
Buff fspar phenocrysts and blo in f.g. aplitic matrix, fairly uniform, wk fract. 70°CA, mod-st. Kspar alt, mod arg. alt, wk-mod sil, dec diss py, wk cpy.

END OF HOLE 622·0 FT SEP 19/73

RECEIVED
1 MAR 1974
MINING
RECORDERS OFFICE
WHITEHORSE, Y.T.

AREA CASINO CREEK NORTHING 836,945·1 N
DIP −90° EASTING 365,251·1 E
AZIMUTH — ELEVATION 3915·6 FT

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED SEPT. 20, 1973 HOLE No. P-53
DATE COMPLETED SEPT. 22, 1973 PAGE No. 1 of 4
LENGTH 485 FT. CORE SIZE NQ

See also Assay Summary Log

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC	
00	104	104·0	—																OVERBURDEN, cased.
104	120	16·0	16·0	9401	·15	·008	·1		<1			S 45		W chl.			<1	Tr	QUARTZ DIORITE: m.g., high mafic, mod chl. and arg alt, wk diss cpy + py - largly on fracts, wk cc to approx 175'
																			111·0 - 119·0 v. st. fract.
120	135	15·0	15·0	9402	·22	·010	·2		<1			S 45		M chl.			<1	Wk	122·0 - 131·5 st. fract. 123·5 dec st. chl, less mafic.
																			134·0 - 135·5 Aplite dyke, f.g.
135	150	15·0	15·0	9403	·18	·033	·2		<1			S 45		S chl.			<1	W	140·5 - 141·5 st. earthy ca alt, fract, 144·5 - 146·5 st. earthy ca alt, fract.
150	165	15·0	15·0	9404	·21	·015	·2		<1			S Lo		S			<1	W	157·0 - 161·0 Aplite dyke, f.g., st. earthy arg alt.
																			161·0 - 170·0 v. strong fract. 165·0 - 166·0 increased Py, min cc.
165	180	15·0	15·0	9405	·18	·012	·2		<1			S		S			<1	Tr	173·0 - 177·0 soft earthy arg alt.
																			180·0 - 185·0 soft earthy arg alt.
180	195	15·0	15·0	9406	·12	·033	·1		<1			W 45 60		S			<1		184·0 sil. fract 70°CA; below dec. fract.
195	210	15·0	15·0	9407	·11	·012	·1		≪1			W 45 70		S			Tr		199·0 - 210·0 st. arg. alt.

AREA CASINO CREEK NORTHING 836,945·1 N

DIP −90° EASTING 365,251·1 E

AZIMUTH — ELEVATION 3915·6 FT.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEPT. 20, 1973 HOLE No. P-53

DATE COMPLETED SEPT. 22, 1973 PAGE No. 1 of 4

LENGTH 485 FT. CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC	
210	225	15·0	15·0	9408	·07	·012	·25		1⁻	W		W 45		S		W	<1	W	212·0 Contact QUARTZ DIORITE APLITE : f.g., lt. grey, occ K v's 25°-40°CA, fine diss cpy and py w. cc coats fine w. depth. 219·5-220·0 clayey arg fract zone 75°CA.
225	240	15·0	15·0	9409	·13	·030	·3	✓	1	W		W 45 80		S		W	<1	W	228·5 moly slip 80°CA 230·5-231·0 clayey arg fract 70°CA. w. fine py 10% 233·0-235·5 Quartz Diorite, lower contact sharp 50°CA.
240	255	15·0	15·0	9410	·11	·015	·25		1⁻	W		S Comp (X)		S chl.			<1	Tr	245·0 Contact. QUARTZ DIORITE f.g., chl, approx 1% py, tr⁺ cpy, very strongly fract. complex (X), whitish clayey material on fracts. 245·0-279·0 v. strong complex fracturing.
255	270	15·0	15·0	9411	·10	·008	·2		1			S X		S chl			<1		275·0-276·0 st. clayey arg alt.
270	285	15·0	15·0	9412	·08	·042	·2	✓	1			S X		S chl			<1		279·0-280·0 fract 80°CA. 280·0 Contact.
285	300	15·0	15·0	9413	·11	·033	·2	✓	1	M		W 45	W	M	M	W	<1	Tr	BANDED APLITE with Qtz. Diorite : aplite f.g. bro alt, w. f.g. qtz dio banding. 280·0-290·0 very strong banding 45°CA
300	315	15·0	15·0	9414	·11	·058	·2	✓	1	W		W Lo	W	S	M	W	<1		299·0-303·0 stronger banding. 303·0-307·0 st. earthy arg alt, wk chl, tr cc on fracts, some good moly. 307·0-310·0 banding 45°CA. 310·0-311·5 chl slip low ∠ CA.
315	330	15·0	15·0	9415	·13	·023	·2		1⁻			W 45		S	M	W	<1		315·0-316·5 banding 80°CA, py vts 45°CA, chl on fracts. 316·5-320·0 st. arg alt, fract 45°CA. 322·0-322·5 py-cc vng 20°CA. 322·5-326·0 Quartz Diorite, f.g.

AREA CASINO CREEK NORTHING 836,945·1 N
DIP −90° EASTING 365,251·1 E
AZIMUTH — ELEVATION 3915·6 FT

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED SEPT. 20, 1973 HOLE No. P-53
DATE COMPLETED SEPT. 22, 1973 PAGE No. 3 of 4
LENGTH 485 FT. CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC
330	345	15·0	15·0	9416	·07	·113	·15		1+		W	W Lo		S	M	W	<1	
345	360	15·0	15·0	9417	·09	·035	·25		1+	W		M 45		S		W	<1	
360	375	15·0	15·0	9418	·05	·028	·25		1+	W		M 45		S		W	<1	
375	390	15·0	15·0	9419	·08	·023	·25		1+	W		M 45		S		W	<1	
390	405	15·0	15·0	9420	·07	·035	·1		<1			S X		S chl			<1	
405	420	15·0	15·0	9421	·10	·030	·2		<1			S X		S chl			1	
420	435	15·0	15·0	9422	·07	·052	·1		<1			S/W		S			<1	
435	450	15·0	15·0	9423	·05	·018	·2		<1	W		W		M		W	<1	

DESCRIPTION

338·0–340·0 st fract ∥CA, arg alt.
343·0–344·0 min qtz vng w moly.

346·0
BANDED APLITE with Hornfels : mainly 45°CA, mod fract mainly ∥banding, inc sulphides; Apl. sects generally strongly arg alt w. wk Kspar alt. Fairly uniform.

383·0 Contact.
QUARTZ DIORITE : mg to fg., strong fract complex, mod chl, frequent slips, sulphides mainly on fracts, dec py w. inc. cpy : py ratio.

407·0–408·0 st. earthy arg alt w. chl. slips 45°CA
409·0–411·0 irreg cc vng.

427·0 Contact
HORNFELS or v.f.g. Quartz Diorite : f.g. dark ss, w. irreg f.g. felsic vts, minor f.g. cpy on fracts, dec v. st. fract and chl. alt.

AREA CASINO CREEK NORTHING 836,945·1 N
DIP -90° EASTING 365,251·1 E
AZIMUTH — ELEVATION 3915·6 FT.

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED SEPT. 20, 1973 HOLE No. P-53
DATE COMPLETED SEPT. 22, 1973 PAGE No. 4 of 4
LENGTH 485 FT CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC		
																				HORNFELS
450	465	15·0	15·0	9424	·08	·025	·1		<1			W 45 60		M			<<1			456·0 – 457·0 fract ∥CA, st. clayey arg alt.
465	485	20·0	20·0	9425	·09	·035	·1		<1			W 45		M Ca			<<1			473·0 – (485) irreg ca vng.
																				END OF HOLE 485 FT, SEP 22/73

RECEIVED
1 MAR 1974
MINING
RECORDERS OFFICE
WHITEHORSE, Y.T.

AREA PATTON HILL
DIP -90°
AZIMUTH —

NORTHING 835,953·0 N
EASTING 363,719·6 E
ELEVATION 4280·6 FT

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEPT. 24, 1973 HOLE No. P-54
DATE COMPLETED SEPT. 26, 1973 PAGE No. 1 of 4
LENGTH 498 FT. CORE SIZE NQ

See also Assay Summary Log

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2 (JAROSITE / HEMATITE / GOETHITE)	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC
00	50	50	—															
50	60	10·0	9·5	9451	·05	·002	·05		7 2 1	W	W	S 65		S				
60	75	15·0	15·0	9452	·03	·001	·05		7 2 1	S	M	W 45		M		M		
75	90	15·0	15·0	9453	·06	·001	·05		Tr 2 1	S	M	M 45		M/S		M		
90	105	15·0	15·0	9454	·03	·002	·1		Tr 2 1	S	M	M/W 45		W		M		Tr?
105	120	15·0	15·0	9455	·08	·002	·25		4	S	M	W 50	M	W/M		S	Tr	W
120	135	15·0	15·0	9456	·14	·002	·2		2	S	M	W 50	M	W	S	S	Tr	W
135	150	15·0	15·0	9457	·16	·003	·2		2	S	M	W 45	M	W	S	S	Tr	Tr

DESCRIPTION

OVERBURDEN, cased.

FELDSPAR PORPHYRY: large fspar phenoxsts in aplitic matrix.

50·0 – 110·0 jar lim stained, dec. below 104·0, earthy arg alt and bleached, hem lim on fracts

54·0 – 60·0 strong fract to shearing 65°CA w. goe. and hem in fracts; mod to st. sil.

87·0 – 92·0 st. fract, earthy arg alt.

95·0 – 97·0 inc. mafic + sil, min bio, poss tr cc.

CAP

104·0 start sulphides w. wk. cc.
108·0 – 109·0 st. py. w sil vng 35°CA.
109·0 contact

SUP

FINE FELDSPAR PORPHYRY BRECCIA(?): v. strongly altered beyond recognition: sil, Kspar, ; fspar phenoxsts locally visible; poss fine bx frags., wk cc on py.

122·0 – 134·0 dist. fspar phenoxsts, jar lim stain.

131·5 start v. st. sil, Kspar alt, f.g. bio alt.

148·0 start distinct fspar phenoxsts.

AREA PATTON HILL
DIP -90°
AZIMUTH —

NORTHING 835,953.0 N
EASTING 363,719.6 E
ELEVATION 4280.6 FT.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEPT. 24, 1973 HOLE No. P-54
DATE COMPLETED SEPT. 26, 1973 PAGE No. 2 of 4
LENGTH 498 FT. CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC	
150	165	15.0	15.0	9458	.21	.020	.2		2⁻	S	M	W 45	W	W	M	S	Tr	Tr	FINE FELDSPAR PORPHYRY BRECCIA (?) Decreasing fractures, rx. more massive.
165	180	15.0	15.0	9459	.11	.003	.2		2⁻	S	M	W 45	W	W	M	S	Tr	Tr	Wk hem lim on fracts.
180	195	15.0	15.0	9460	.16	.003	.2		1⁺	S	M	W 45	W	W	M	S	Tr	Tr	
195	210	15.0	15.0	9461	.17	.007	.2		2⁻	S	W	M 15 45	W	W	M	S	Tr	Tr	201.0–206.0 inc py and fract 15°CA. 208.0–219.0 v.st. Kspar alt.
210	225	15.0	15.0	9462	.08	.001	.2		2⁻	S	W	M/W 45	W	W	W	S	Tr	Tr	
225	240	15.0	15.0	9463	.08	.013	.25		2⁻	S	W	M 45 25	W	W/M	W	S	Tr	Tr	227.0–235.0 ca-py lim fracts low % to 25°CA. 239.0 start more massive rx; sl. inc. py. 240.0 Approx end supergene.
240	255	15.0	15.0	9464	.15	.011	.25		3⁻	S		W 50	W	W/M	W	S/M	Tr⁺	Tr	
255	270	15.0	15.0	9465	.36	.013	.2		3⁺	S		Lo	W	W/M	W	M	Tr	Tr	261.0–268.0 fract // CA, w. min lim.

AREA PATTON HILL
DIP -90°
AZIMUTH —

NORTHING 835,953·0 N
EASTING 363,719·6 E
ELEVATION 4280·6 FT

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED SEPT. 24, 1973 HOLE No. P-54
DATE COMPLETED SEPT. 26, 1973 PAGE No. 3 of 4
LENGTH 498 FT. CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC	
270	285	15·0	14·0	9466	·14	·028	·4		2⁺	S		Lo	M	M		M	<1	Tr	FINE FELDSPAR PORPHYRY BRECCIA (?) 273·0–280·0 inc. cc at contact zone, inc arg. alt; cc. 279·0–280·0 1 ft lost core 285·0 contact // CA (282·0–289·5)
285	300	15·0	15·0	9467	·17	·035	·2		2	M		W	M	M/S		M	Tr		APLITE: f.g., mod K alt, mod–wk sil, st arg alt, massive with occ. fracts 45°–60° CA, well diss fine Py. 288·5–289·5 galena w ca vng.
300	315	15·0	15·0	9468	·14	·013	·2		2⁺	W		W	M/W	S		S	Tr	Tr	315·5 contact 25° CA, w Ca.
315	330	15·0	15·0	9469	·12	·013	·2		2	W		W	W	S		S/M	Tr		FELDSPAR PORPHYRY: light coloured due to arg alt. 318·0 Inc arg alt, dec. sil.
330	345	15·0	15·0	9470	·13	·010	·2		2⁻			S X	W	S		M	Tr		334·0–336 st. earthy arg alt., broken core. 341·0–344·0 arg alt, fract // CA. 344·0 Inc sil., massive.
345	360	15·0	15·0	9471	·12	·028	·2		2⁻	M		W 45	W	M		M	Tr	Tr	
360	375	15·0	15·0	9472	·12	·013	·25		3	S		W Lo	W	M		M	Tr⁺		370·0–372·0 fract // CA, increasing sil. Feldspar Porphyry continues quite massive, uniform, sil w Kspar, occ sil v's.
375	390	15·0	15·0	9473	·18	·013	·2		2⁻	S		W 70	W	W		S	Tr		

AREA PATTON HILL
DIP -90°
AZIMUTH —

NORTHING 835,953.0 N
EASTING 363,719.6 E
ELEVATION 4280.6 FT.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEPT 24, 1973 HOLE No. P-54
DATE COMPLETED SEPT. 26, 1973 PAGE No. 4 of 4
LENGTH 498 FT. CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC
390	405	15.0	15.0	9474	.20	.011	.2		1+	S	W	W 45 70	W	W		S	Tr	
405	420	15.0	15.0	9475	.12	.011	.2		1	S	W	W 45	W	W		S	Tr	
420	435	15.0	15.0	9476	.08	.010	.2		1+	S	W	W 50	W	W		S	Tr+	
435	450	15.0	15.0	9477	.12	.010	.2		1+	S	W	M Lo	W	W/M		S	Tr	
450	465	15.0	15.0	9478	.09	.010	.2		1	S		W	W	W/M		M	Tr+	
465	480	15.0	15.0	9479	.06	.010	.2		1+	S		W	W	W/M		M	<1	
480	498	18.0	18.0	9480	.11	.010	.2		2	M		W	W	M		M/W	<1	

DESCRIPTION

FELDSPAR PORPHYRY

Dec. py.

406.0-408.0 fract w py // CA.

sl. inc cpy, tr cc? on fracts.

435.0-440.0 fract inc low and // CA, w. assoc. py, inc arg.

END OF HOLE 498 FT, SEP/73

RECEIVED
1 MAR 1974
MINING
RECORDERS OFFICE
WHITEHORSE, Y.T.

AREA "WEST PIT" NORTHING 836,603.6 N
DIP -90° EASTING 361,723.3 E
AZIMUTH — ELEVATION 4038.8 FT.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEPT. 28, 1973 HOLE No. P-55
DATE COMPLETED SEPT. 30, 1973 PAGE No. 1 of 5
LENGTH 558 FT. CORE SIZE NQ

See also Assay Summary Log

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA											ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	JAROSITE / HEMATITE / GOETHITE	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC	
00	50	50	—																	OVERBURDEN cased.
50	60	10.0	9.5	9251	.05	.002	.1		7	2 1			S 40	W/M	S					QUARTZ DIORITE mg. changing to f.g. w. depth, fipar plag xsts, free qtz, strongly leached and weathered, st. arg alt, st. jar lim stain, well fract 40°CA.
60	75	15.0	15.0	9252	.04	.002	.1		7	2 1			S 40	W/M	S					
75	90	15.0	14.5	9253	.04	.002	.1		8	1 1			S Lo	W	S					74.5-90.0 v. st. earthy arg alt, crumbled core, finer gr. qtz dio, fract low ∠ CA.
90	105	15.0	14.0	9254	.03	.005	.1		7	2 1		W	S Lo 40	W	S					92.0-94.0 qtz v. poss 40°CA, strongly broken. 1 ft. lost core.
105	120	15.0	15.0	9255	.04	.005	.1		7	2 1			S 40	W	S					St. arg alt.
120	135	15.0	15.0	9256	.04	.003	.1		6	2 2			S Lo 40	W	S					123.0-132.0 inc fract #CA, inc hem + goe lim.
135	150	15.0	15.0	9257	.05	.003	.2		7	2 1			S/M 45	W	S				W	135.0 start oc., sup. still largely leached and lim stained.

CAP — PART OXIDE — SUP

AREA "WEST PIT" NORTHING 836,603.6 N
DIP -90° EASTING 361,723.3 E
AZIMUTH — ELEVATION 4038.8 FT.

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED SEPT. 28, 1973 HOLE No. P-55
DATE COMPLETED SEPT. 30, 1973 PAGE No. 2 of 5
LENGTH 558 FT. CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2 J / G	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC
150	165	15.0	15.0	9258	.10	.002	.5		1 / 6			M / Lo	W	S			Tr	M
									py / 2 2									
165	180	15.0	15.0	9259	.06	.030	.6		1 / 6	W		W/M / ΔS	W	S			Tr	M
									py / 2 2									
180	195	15.0	15.0	9260	.06	.005	.6		1 / 6			S / Lo	W	S			Tr	M
									py / 2 2									
195	210	15.0	15.0	9261	.02	.008	.25		<1 / 6		W	S / X	W	S			Tr	W
									py / 2 2									
210	225	15.0	15.0	9262	.10	.028	.2		Tr / 7		W	S / X	W	S				Tr
									py / 2 1									
225	240	15.0	15.0	9263	.20	.042	.3		1		W	S/M	W	S				W
									py									
240	255	15.0	11.0	9264	.24	.030	.8		1			W	W	S		M	Tr	M
									py									
255	270	15.0	15.0	9265	.36	.047	.5		1	M		M / ΔS	W	S/M		M	Tr	M
									py									

DESCRIPTION

152.0 Contact QUARTZ DIORITE FELDSPAR PORPHYRY
155.0 Contact
QUARTZ DIORITE f.g., start strong py, w. cc., wk lim.
162.0 Contact

APLITE
162.0–166.0 fract // CA.
166.0 Dec fract, dec. lim.

180.0 start st. fract.

188.0 Contact
QUARTZ DIORITE
187.0–229.0 v. st. fract and lim stain, arg alt, dec py and leaching, fine cc.
197.0 Contact

APLITE m.g., leached w. st. fract.

PART LEACHED SUP

218.0 start py again, partly leached, cc.

229.0–238.0 dec lim, more massive.

238.0–246.0 St. earthy lim, leached, 4 ft. lost core, last strong limonite.

246.0(?) Contact 4 ft. lost core.

SUP

FELDSPAR PORPHYRY fairly massive, st. arg alt, Kspar alt, cc. coating py.

AREA "WEST PIT" NORTHING 836,603·6 N
DIP −90° EASTING 361,723·3 E
AZIMUTH — ELEVATION 4038·8 FT

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEPT. 28, 1973 HOLE No. P-55
DATE COMPLETED SEPT. 30, 1973 PAGE No. 3 of 5
LENGTH 558 FT. CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC	DESCRIPTION
270	285	15·0	15·0	9266	·27	·050	·4		1	M		M 30 45	W	S		M	Tr	M	FELDSPAR PORPHYRY 280·0 increasing bio.
285	300	15·0	15·0	9267	·20	·060	·7		1+	W		S 45	W	S		M	Tr	M	
300	315	15·0	15·0	9268	·35	·067	·7		1+	W		S/M	W	S		M	Tr	M	304·0–307·0 st. earthy arg alt, 2% py, coated w cc, 312·0–315·0 v. st. fract. 315·0 dec. py + ac.
315	330	15·0	15·0	9269	·39	·043	·3		1−	W		M 45	W	S		M	Tr	W	
330	345	15·0	15·0	9270	·27	·055	·25		<1	W		M 45	W	S		M	Tr	W	
345	360	15·0	15·0	9271	·20	·042	·3		1+	W		M 45	W	S		M	Tr	W	347·0–348·0 moly smears on fracts. 352·0–354·0 st. fract.
360	375	15·0	15·0	9272	·32	·045	·3		1+	W		M 45	W	S		M	Tr+	W	366·0 Contact 369·0 Contact APLITE f.g. FELDSPAR PORPHYRY Inc Kspar alt, inc. moly, bio fresher.
375	390	15·0	15·0	9273	·23	·082	·3		2	S		W 60	W	M/W		S	<1	Tr	APLITE f.g. slt, 2–3% py, min cpy.

AREA "WEST PIT" NORTHING 836,603.6 N
DIP -90° EASTING 361,723.3 E
AZIMUTH — ELEVATION 4038.8 FT

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED SEPT. 28, 1973 HOLE No. P-55
DATE COMPLETED SEPT. 30, 1973 PAGE No. 4 of 5
LENGTH 558 FT. CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC	
390	405	15.0	15.0	9274	.17	.047	.2		<1	M		M/S 45 60	W	W		M	Tr		293.5 Contact APLITE FELDSPAR PORPHYRY: as previous, wk sil, dec arg alt.
405	420	15.0	15.0	9275	.17	.062	.35		1	S/M	M	M 45	W	W		M	Tr	Tr^+	405.0–415.0 qtz-Kspar vng, min cc on fracts. 415.0–416.0 gouge w. Kspar-qtz v. material.
420	435	15.0	15.0	9276	.18	.077	.4		1	M	M	M 45	W	W/M		S	Tr	W	420.0 contact QUARTZ DIORITE f.g., w. Kspar Porph sects, 2ndary bio. 422.2 Contact FELDSPAR PORPHYRY 427.0–434.5 st. arg earthy alt, w sects st. Kspar, alt Fspar Porph(?), sil, well min py, min cc. Probable Fault Zone.
435	450	15.0	15.0	9277	.19	.075	.4		2	W		W Lo	W	S		M	Tr^+	W	434.5 Fault Contact.
450	465	15.0	15.0	9278	.18	.130	.3	✓	1^+	S	M	W	M	W		S	Tr^+	Tr	MIXED QUARTZ DIORITE with Feldspar Porphyry 437.9–440.0 earthy arg alt, min cc coating py, below arg alt to 454.0 454.0 start sil, qtz-Kspar v's and alt sects, more massive 459.0–460.0 sil K v. w py, cc. 463.0–468.0 f.g. sil 466.0 1½" bb v.f.g. moly(?) 478.5–479.5 1" ca v w py 25°CA.
465	480	15.0	15.0	9279	.12	.112	.3	✓	2	S	S	W	W	S		S	Tr^+	Tr	
480	495	15.0	15.0	9280	.10	.080	.2	✓	2	S	M	W	W	M		S	Tr		496.0–500.0 sil Kspar v's w moly low & CA.
495	510	15.0	15.0	9281	.09	.027	.2	✓	2	S	M	W	W	M		S	Tr		

AREA "WEST PIT" NORTHING 836,603·6 N
DIP -90° EASTING 361,723·3 E
AZIMUTH — ELEVATION 4038·8 FT.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEPT. 28, 1973 HOLE No. P-55
DATE COMPLETED SEPT. 30, 1973 PAGE No. 5 of 5
LENGTH 558 FT. CORE SIZE NQ

Logged by A.I. Betmanis

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	CPY	CC
510	525	15·0	15·0	9282	·12	·055	·2	✓	2+	M	M	W	W	M		S	Tr	
525	540	15·0	15·0	9283	·13	·073	·2	✓	2	M	M	W	W	M		S	Tr	
540	558	18·0	18·0	9284	·18	·043	·2	✓	2	M	M	W	W	M		S	Tr	

DESCRIPTION

MIXED QUARTZ DIORITE

511·5 - 513·0 st. arg alt.
517·5 - 521·0 mafic bio streaks 50°CA.
523·0 - 524·0 thick py-ca v 40°CA, below more sil sects, sil-K vts.
531·0 - 533·0 mafic banding 35°CA.

END OF HOLE 558 FT SEP 30/73

MOUSE 82
CAT 73
MOUSE 81
CAT 55
MOUSE 90
MOUSE 2
CAT 54
MOUSE 1
CAT 53
CAT 13
JOE 101
CAT 52
MOUSE 3
MOUSE 4
CAT 14
CAT 51
MOUSE 161F
CAT 11
JOE 99
MOUSE 7
MOUSE 8
CAT 50
MOUSE 6
CAT 12
MOUSE 5
CAT 62
CAT 49
MOUSE 111
MOUSE 112
MOUSE 9
MOUSE 10
CAT 61
CAT 9
CAT 47F
CAT 46F
MOUSE 162F
CAT 48
JOE 97
CAT 62F
MOUSE 134 F
CAT 60
CAT 10
CAT 47
MOUSE 134
MOUSE 110
MOUSE 11
MOUSE 12
CAT 69
CAT 70
CAT 59
CAT 7
MOUSE 163F
JOE 96
MOUSE 109
CAT 58
CAT 8
CAT 5
CAT 23 F
CAT 24
CAT 57 F
MOUSE 13
MOUSE 14
CAT 67
CAT 68
CAT 57
CAT 21
CAT 6
CAT 3 F
CAT 23
MOUSE 132
MOUSE 132 F
MOUSE 107
MOUSE 108
CAT 4F
CAT 22 F
CAT 3
CAT 22
MOUSE 15
MOUSE 16
CAT 65
CAT 66
CAT 4
MOUSE 130
MOUSE 130 F
MOUSE 105
MOUSE 106
MOUSE 127
MOUSE 128
CAT 64
CAT 63

382,000 E
354,000 E
356,000 E
358,000 E
360,000 E
362,000 E
364,000 E
366,000 E
368,000 E
370,000 E
22,840,000 N
22,838,000 N
22,836,000 N
22,834,000 N
22,832,000 N
22,830,000 N

LEGEND

Improved road
Secondary road
Track or trail
Railway
Fence
Tree area
Cut line
Contours
River
Stream
Intermittent stream
Ditch
Swamp
Horizontal control
Drill hole
Spot elevation

BRAMEDA RESOURCES LTD.

CASINO CREEK PROJECT

YUKON TERRITORY

MAP SCALE

FEET 400 200 0 400 800 1200 FEET

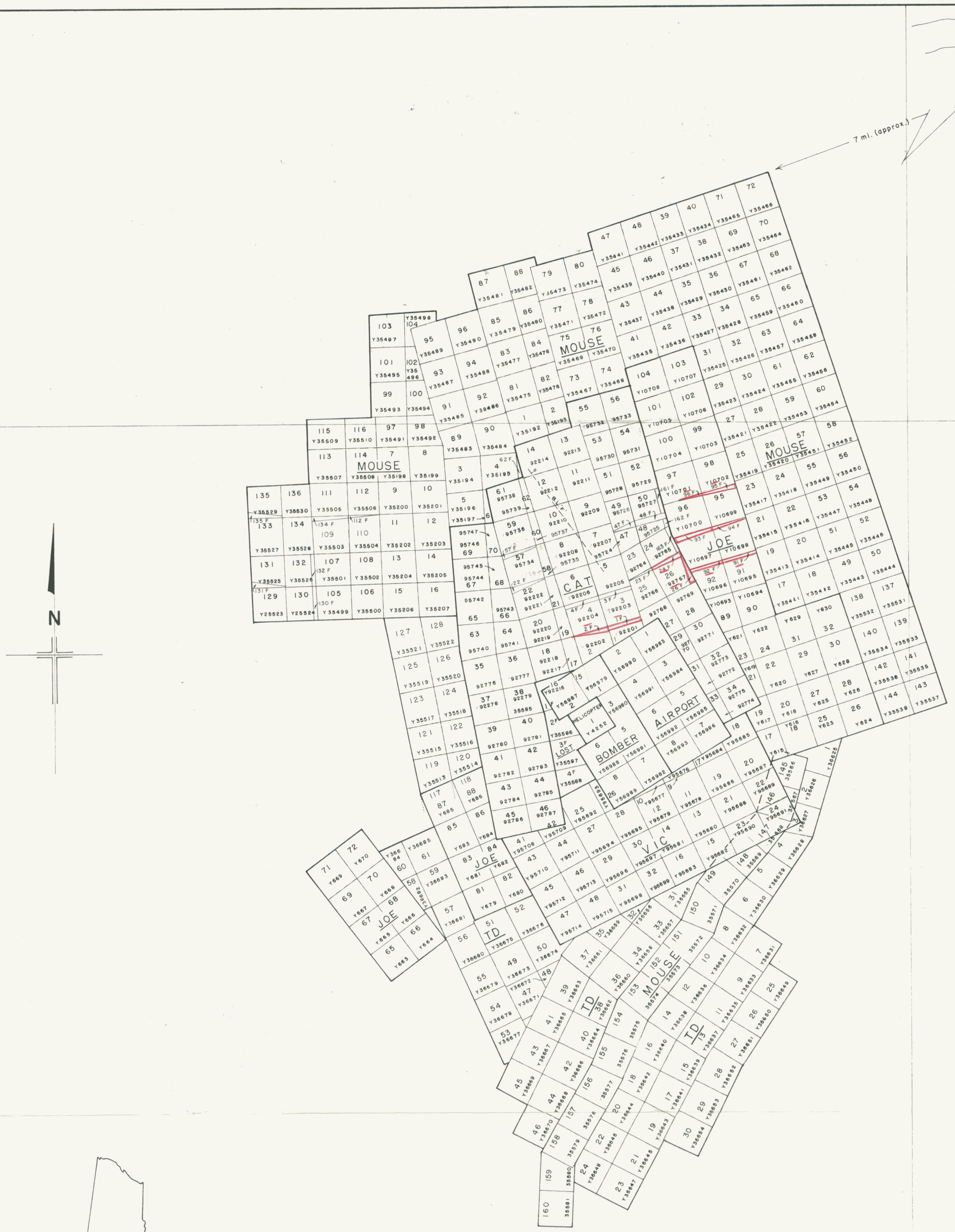
CONTOUR INTERVAL 10 FEET

CLAIM BOUNDARY (Unsurveyed)

CLAIM BOUNDARY (Surveyed)

CLAIM MAP

JOB Nº BR-107 DRWG Nº G-216



CLAIM NAME	GRANT NO.
CAT 1 F	Y51846
2 F	Y51847
3 F	Y39601
4 F	Y39602
22 F	Y39636
23 F	Y39603
24 F	Y51848
26 F	Y51849
47 F	Y36687
48 F	Y36688
57 F	Y36689
62 F	Y36690

CLAIM NAME	GRANT NO.
JOE 91 F	Y51850
92 F	Y51851
93 F	Y51852
94 F	Y51853
95 F	Y51854
96 F	Y51856

CLAIM NAME	GRANT NO.
MOUSE 112 F	Y39505
130 F	Y39506
131 F	Y39507
132 F	Y39508
134 F	Y39509
135 F	Y39510
161 F	Y35582
162 F	Y35583
163 F	Y35584

138°45'

N.T.S. 115 J 10

JOB NO. BR-107 / DWG. NO. G-105

CASINO SILVER MINES LTD.

CLAIM MAP

DAWSON RANGE, YUKON

DRAWN BY:	REVISED:	SCALE:
O.C. AUG. 69.	FEB., 71 / L.B	1 in. = 1/2 mi.