

GM 49994

DIAMOND DRILLING LOGS, CHARLIM PROPERTY

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Énergie et Ressources
naturelles

Québec 

EXPLORATION MINIERE BONANZA METALS INC.

Grid co-ordinates 6+20N 58+00W

Range _____ Lot _____

_____ Meters _____ of Range _____

_____ Meters east of Lot _____

Direction 360° Dip -45°

Depth of casing 54° Feet _____ Meters _____

Final depth of hole 1296 Feet _____ Meters _____

Logging Started 27-01-90

Logging Finished 29-01-90

Logged by WFG

Section Complete _____

Visual Log Complete _____

COMMENTS: No significant sulphide mineralization
was encountered.

Max-Min anomaly may be structural (fault) zone

at 434' - 436' IP conductor may be disseminated

Mt in amphibolitic intrusive 908' - 1101'

Ministère de l'Énergie et des Ressources
Service de la Géoinformation

Date: 26 FEV 1991

No G.M. 049994

PROPERTY CHARLIM

HOLE # CH-90-01

DATE STARTED 15-01-90

DATE FINISHED 24-01-90

Reason drilled: _____

To test Max-Min and IP anomalies on line

58+00W around 7+00N and 8+00N respectively

Acid tests:

Depth Feet	Meters	Tube Angle	Corrected Dip
100			-44½°
200			-46½°
300			-45½°
400			-44½°
600			-44½°
800			-39½°
900			-40½°
1000			-37½°

RECUE
22 OCT 90
SERVICE GÉOLOGIQUE DU NORD-OUEST
ROUYN-NORANDA

Tropy tests:

Depth	Direction Read	Corrected Direction	Dip
500'	023		-43°
700'	025		-42½°
1100'	032		-37½°
1200'	032		-36°
1296'	028½		-34°

90-299-016

SEP
8
'90

DEPTH
(FEET)

- 0.0 53.8 CASING

- 53.8 146.3 ANDESITE -BASALT
 Central part of flow, amphibole-chlorite. Alternate with feldspar grains in diabasic apppy, with increase in foliation chl. amph. migrates in clusters as matrix becomes more carbonaceous (example 61).
 - 84' to 84.5' dykelet of intermediate volcanic 45° TCN
 - 87' quartz ankerite Vn. 4 cm, 45° TCN
 - 87.5' vertical py, po 1 cm. quartz Vn
 - 104.5' chl. carb. quartz shear, mainly massive chlorite
 - 108' quartz ankerite Vn. 70° TCN, py clusters.
 - 131.5' contact fine grain Andesitic flow with amphotitic base of flow.

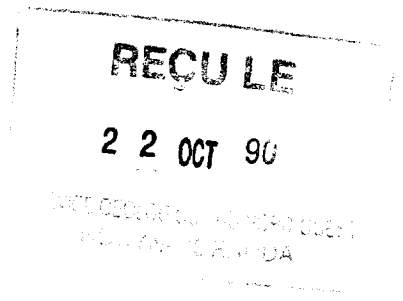
- 146.3 154.8 INTERMEDIATE DYKE
 Fine grain, grey, some relict phenocrysts or inclusions strongly altered epidotic, original crystals? aligned 60° TCN. Dyke contacts 60° TCN, no sulphides.

- 154.8 243.2 ANDESITE TO INTERMEDIATE FLOW
 Medium to coarse grain, grey green colour, homogeneous, featureless, central to lower portion of flow. Thickness and crystallinity of flows indicates bleached andesitic flow.
 - 183.5' contact - amygdaloidal flow top, fine grain with medium to coarse grain flow above, indication here that flow is 30 to 50' thick, suggests original basic flow at 200' at lower contact.

A finer grain to 228' then reverts to coarse grain at 243.2 (5 cm quartz vn a 242.5)

- 243.2 261.5 ANDESITE BASALT
 Single basaltic flow fine grain ct. 20° TCN remains medium grain to 251' then reverts to coarse grain to 261.5', no features, typical chlorite carbonate fabric, rare clots py.

- 261.5 299.5 ANDESITE TO INTERMEDIATE FLOW
 Lighter grey green coarse grain homogenous, constant granularity some larger chloritic porphyroblasts



-
- 299.5 396.0 ANDESITE BASALT
Fine grain, medium green, flow top grades to coarse grain, at 302' 304' to 306' vertical quartz ankerite vn. 2cm wide, no sulphide. Contact 310.5' with basaltic above, same composition flow top with amygdules, fine grain, phenos abundant to 313'. At 371' contact coarse grain with fine grain flow top 45° TCN at 396.6 contact flows from 385' - 396'. Scattered segments with abundant phenocrysts.
- 396.0 416.0 ANDESITE TO INTERMEDIATE
This contact extremely arbitrary as very gradual colour change from green to light green to grey with increase carbonate content of matrix, colour change gradual.
- 416.0 427.0 AGGLOMERATE - ANDESITIC - LAPILLI TUFF
Multitude lapilli kernels, some coarse anhedral andesite fragments, explosive accumulation, 80% of matrix is fragments in chloritic, matrix, no sulphides, crude orientaton 45° TCN.
- 427.0 434.0 ANDESITE
Green grey chloritic, schisted, segments chlorite lamellae with intervening holocrystalline rock, sulphide extremely rare.
- 434.0 436.0 FAULT - QUARTZ
Pink carbonate white carbonate, chlorite schist, brecciated quartz, carbonate vein, mylonitic lenses, intact part of cb. quartz vn 70° TCN, isolated Py.
- 436.0 461.2 INTERMEDIATE FLOW
Stretched, fine grain, top of flow TCN, fractured with light grey fine grain bleached borders (sericitic alteration?). Some late fractures to 1cm quartz ankerite, amygdaloidal flow top grades downward to medium grain grey fabric, massive chlorite, ankerite quartz fractures devoid of sulphides.
- 461.2 466.8 RHYOLITE
Light green grey, vitreous, darker, ovoidal chloritic inclusions in flow top and grading into main portion of flow to lower contact, chloritic inclusions with fretted margins, resorbed margins, Py 2%.
- 466.8 523.0 ANDESITE - BASALT
Medium green colour, fine grain chloritic matrix, abundant phenocrysts. Angular white feldspar phenocrysts to 474' (probably intersect flow at low angle for thick flow top, gradual increase grain size below 474' with sporadic segments with phenocrysts, late fractures entirely ankerite or with minor quartz, 500' to 502', hematite lining late fractures. At 504.5' contact flow, sharp contact 2 flow same compition, with ankerite fill, seattered vy fine amygdules in top.

-
- 523.0 553.0 ANDESITE BASALT DYKE
Coarse grain, sharp contacts (fine grain flow above) inclusions of fine grain at contact, large chlorite amphibole in feldspath carbonaceous matrix, somewhat silicic hard, suggest silica saturation after metamorphic alteration, coarse granulavity continues to 553', rare ankeritic seams in late fractures, massive, hard, partially silicified, disseminated magnetite.
- 553.0 554.2 QUARTZ ANKERITE VEIN
Minor chlorite inclusions, foliation 45-50° TCN.
- 554.2 600.7 ANDESITE BASALT "DYKE" (as described)
560' 5cm barren quartz ankerite, contains limited fine grain segments from 1' @ 578' to 3' @ 589 to 592' (may be misinterpretation as dyke but no flow features, general massive granularity)
575' - 585' magnetite 5% fine cristals dissem in matrix.
- 600.7 601.3 QUARTZ ANKERITE VN
Stringers massive chlorite, M segregations ankerite. Late fractures with ankerite. Ct 50° to 60° TCN - barren.
- 601.3 635.2 ANDESITE - BASALT "DYKE"
As above 523' - 553' and 554.2' - 600.7' very strong disseminated leucoxene pseudomorphs 620' - 632', 2% py.
632' to 635.2 multiple barren quartz carbonated vein to 5cm.
Quartz ankerite fractures 1 cm.
- 635.2 671.5 ANDESITE - BASALT FLOW
Fine grain featureless - chlorite amphibole carbonate feldspar homogenous grading to medium grain at 640' with repetition of same sequence from about 647' to 671.5', no sulphides, threading by quartz ankerite carbonate 5mm to 1mm fractures barren, occasional fine leucoxene, rare lone subhedral feldspar phenocrysts.
- 671.5 767.2 ANDESITE BASALT DYKE (QUARTZ DIORITE)
As described above, now is more altered phase with quartz eyes, clusters of epidote, clear carbonate around individual feldspath grains, with finer grained chlorite carbonate fabric, widespread disseminated leucoxene, fine fractures threaded with ankerite, some cristals py, most distinguishing feature are rounded abundant quartz eyes. From 723' to 726, blocky fractured angular chips. Quartz diorite reverts here to migmatitic phase, quartz eyes persist but mosaic of (?k) indicates incorporated andesite basalt flow in varying quantity, rock fabric has more very fine grain matrix, less intrusive character

-
- 767.2 806.0 ANDESITE INTRUSIVE - PORPHYRY
Strange type of volcanic intrusive on conduit, upper contact 2' is fine grain andesite grading to intrusive porphyry with abundant phenocrysts of white feldspath partly resorbed with random lone quartz augen (this relates it to quartz diorite intrusive above), matrix is fine grain melange of chlorite amphibole carbonate feldspar; abundant andesite (medium grain) incorporated in matrix, xenoliths, to 3 or 4 cm. wide, matrix saturated with epidote, fine relict leucoxene pseudomorphs, no sulphides.
- 806.0 907.8 ANDESITE FLOW
Fine grain medium green, homogenous matrix in contact with porphyritic andesite.

Trace Py on carbonate slip at 327'. Massive, similar to intrusives in other parts of property area minor intrusives similar to previous section around 834' - 837'.
- 907.8 1011.1 MAFIC INTRUSIVE (AMPHIBOLITE)
Coarse grained, mainly ferromagnesian mineral (looks like amphibole but possibly after pyroxene) with some cream colored feldspar and minor quartz. Locally acicular amphiboles. Disseminated magnetite throughout, some grains up to 3mm QZ-CA veining with EP around 957' - 966' probably enough diss. magnetite to make IP conductor
- 1011.1 1048.1 MAFIC - INTERMEDIATE VOLCANIC
Similar to 806.0 - 907.8 massive similar to intrusives.
- 1048.1 1114.2 INTERMEDIATE - FELSIC INTRUSIVE
Starts (Feld), medium grained to 1076' numerous inclusions? of mafic - int. volcanic then from about 1078' QZ eyes present becoming abundant.
From 1101' to end of intersection pinkish colour ie similar in appearance to granite with clx stringers.
- 1114.2 1139.2 INTERMEDIATE - FELSIC VOLCANIC
Generally lapilli, cristal tuff with feldspar cristal dominant and lesser QZ section of finer grained material rare breccia fragments.
- 1139.2 1185.2 INTERMEDIATE - FELSIC VOLCANIC
Lapilli lithic tuff with clx fragments, massive appearance highly bleached near upper contact due to QZ CA vein around 1143'.
- 1185.2 1216.3 MAFIC - INTERMEDIATE VOLCANIC
Massive appearance of intrusive sausseratized feldspar especialy toward lower contact.

- 1216.3 1285.1 INT - FELSIC VOLCANIC
Feld (cristal tuff?) few fragments of unit above within this unit at upper contact. Altered 1244' - 1270'
QZ CA veining, minor foliated sections, QZ eyes from 1264' (different unit?).
- 1285.1 1296.0 MAFIC - INT VOLCANIC (TUFF)
Massive, sausseratized for 5' from contact with few clix fragments.
- 1296.0 EOH.

EXPLORATION MINIERE BONANZA METALS INC.

Grid co-ordinates 6+15N 54+00W

Range _____ Lot _____

_____ Meters _____ of Range _____

_____ Meters east of Lot _____

Direction 360° Dip -45°

Depth of casing 42° Feet _____ Meters _____

Final depth of hole 686 Feet _____ Meters _____

Logging Started 26-01-90

Logging Finished 29-01-90

Logged by JMS

Section Complete _____

Visual Log Complete _____

COMMENTS: No significant mineralization was

encountered. Section of broken core and

chloritic partings was noted in the

vicinity of the projected Max-Min conductor

PROPERTY CHARLIM

HOLE # CH-90-02

DATE STARTED 24-01-90

DATE FINISHED 26-01-90

Reason drilled: _____

To test weak Max-Min conductor around 6+80N

Acid tests:

Depth Feet	Meters	Tube Angle	Corrected Dip
100			-43½
200			-43½
500			-44½
600			-39½

Tropy tests:

Depth	Direction Read	Corrected Direction	Dip
250	018		-43°

DEPTH
(FEET)

0.0	42.0	QAL
42.0	457.0	<p>MAFIC INTERMEDIATE VOLCANIC (TUFF)</p> <p>Fairly massive, sections of "speckled" (looks like altered feldspaths) (sausseratized?) material. Minor quartz eyes, abundant quartz - CA veins. From 98' - 115' minor broken core</p> <p>262' - 307' feld xl tuff</p> <p>329' - 336' broken core clix. parting at low angle (location of max min conductor)</p>
457.0	548.0	<p>INT - FELSIC VOLCANIC (AGGLOMERATES)</p> <p>Minor silicification</p> <p>Moderate fabric 40° - 50° TCA</p> <p>Quartz eyes locally abundant</p> <p>Minor sericite / bleached patches</p> <p>Generally matrix supported frags appear to be minor component overall</p>
548.0	686.0	<p>MAFIC - INTERMEDIATE VOLCANIC (TUFF)</p> <p>Similar to 42.0 - 457.0</p> <p>Local minor feld 607' scattered PY grains minor quartz eyes</p> <p>656' - 681' few EP patches.</p>
686.0		EOH

EXPLORATION MINIERE BONANZA METALS INC.

POIRIER: (128+35N 98+30E)

COORD

Grid co-ordinates 24+00N 49+00W

Range Lot

Meters of Range

Meters east of Lot

Direction 360° Dip -45

Depth of casing 82° Feet Meters

Final depth of hole 1116 Feet Meters

Logging Started 03-02-90

Logging Finished 05-02-90

Logged by JMS

Section Complete

Visual Log Complete

COMMENTS:

Blank lines for comments.

PROPERTY CHARLIM

HOLE # CH-90-03

DATE STARTED 26-01-90

DATE FINISHED 04-02-90

Reason drilled:

To test western strike extension of Maxi-

Probe anomalies on Poirier

Lines 104+00E, 108+00E ~ 134+00N

(25+70N) and as part of stratigraphic fence.

Acid tests:

Depth Feet	Meters	Tube Angle	Corrected Dip
100			-46°
200			-43½°
400			-40½°
600			-37½°
900			-32°
1000			-28½°

Tropyary tests:

Depth	Direction Read	Corrected Direction	Dip
300'	018		-41½°
500'	021		-37½°
700'	023		-34°
800'	024		-33°
1116'	032		-27°

EXPLORATION MINIERE BONANZA METALS INC.

POIRIER (138+80N 98+00W)

COORD

Grid co-ordinates 27+25N 49+00W

Range _____ Lot _____

_____ Meters _____ of Range _____

_____ Meters east of Lot _____

Direction 360° Dip -45°

Depth of casing 112 Feet _____ Meters _____

Final depth of hole 946 Feet _____ Meters _____

Logging Started 08-02-90

Logging Finished 11-02-90

Logged by JMS

Section Complete _____

Visual Log Complete _____

COMMENTS: No significant mineralization

possible conductor 714' - 796'

structural (fault) zone.

PROPERTY CHARLIM

HOLE # CH-90-04

DATE STARTED 05-02-90

DATE FINISHED 10-02-90

Reason drilled: To test western strike extension of maxi-Probe anomalies on Poirier Lines 104+00E, 108+00E

✓139+00N (27+30N) and as part of stratigraphic fence

Acid tests:

Depth Feet	Meters	Tube Angle	Corrected Dip
300			-37½°
400			-37½°
700			-35°
900			-35°

Tropyary tests:

Depth	Direction Read	Corrected Direction	Dip
200	012½		-40°
500	015		-37°
600	018		-36½°
800	021		-36°

DEPTH
(FEET)

0.0	111.0	QAL
111.0	359.3	INT-FELSIC VOLCANIC (AGGLOMERATE) Generally silicified, usually intensely with local "granodioritic" texture (chloritic spotting and patches within silicified matrix). Chloritic section 293' - 301.5' Massive section (large block, autobreccia) near lower contact. Very weathered for about 30' below bedrock interface with abundant low angle CA (iron CA) veining.
359.3	576.8	INT-FELSIC INTRUSIVE Massive, minor feldpath. Quartz CA veinlets throughout as typical of unit elsewhere. Broken core 460' - 466' with CA veining low angle chloritic partings.
576.8	714.4	MAFIC-INT. INTRUSIVE Diorite appearance Minor int. felsic intrusive within
714.4	946.0	INT-FELSIC VOLCANIC (TUFF) Very blocky broken core to 796' (structural "conductor") makes rock type definition difficult. Wweathered CA veining for about 15' at upper contact once past blocky section massive with minor section brecciated or agglomerate, local silicification.
946.0		EOH

EXPLORATION MINIERE BONANZA METALS INC.

POIRIER COORDS: 144+60N 98+30E

Grid co-ordinates 29+00N 49+00W

Range _____ Lot _____

_____ Meters _____ of Range _____

_____ Meters east of Lot _____

Direction 360° Dip -45

Depth of casing 172 Feet _____ Meters _____

Final depth of hole 746 Feet _____ Meters _____

Logging Started 22-02-90

Logging Finished 24-02-90

Logged by JMS

Section Complete _____

Visual Log Complete _____

COMMENTS: _____

PROPERTY CHARLIM

HOLE # CH-90-05

DATE STARTED 12-02-90

DATE FINISHED 20-02-90

Reason drilled: _____

Acid tests:

Depth Feet	Meters	Tube Angle	Corrected Dip
200			-45½°
400			-43½°
500			-41°
700			-40½°

Tropyary tests:

Depth	Direction Read	Corrected Direction	Dip
300	026NE	-13	-43
600	032NE	-19	-41
746	031NE	-18	-40½

DEPTH (FEET)			
0.0	172.0	QAL NUMEROUS BOULDERS	
172.0	345.6	INT-FELSIC VOLCANIC (AGGLOMERATE)	
		Fairly massive, volcanoclastic nature, clasts are not distinct, may be composed largely of blocks. Grey green colour	
		Minor silicification to about 217'. CA veining, weathered and vuggy 226' - 236'	
345.6	465.2	MAFIC-INT INTRUSIVE	
		Medium coarse grained, dioritic composition	
		Diabasic texture	
		Few minor chloritic xenos	
		Fine grained contact zone	
		342.0' - 345.6'	upper
		461.3' - 465.2'	lower
465.2	472.2	INT-FELSIC INTRUSIVE	
		Fine grained massive	
		Minor feldspath	
472.2	491.2	INT-FELSIC VOLCANIC (AGGLOMERATE)	
		Probably similar to 172.0' - 345.6' but moderately altered. Slightly pinkish in colour.	
491.2	746.0	GRANITE	
		Fine to medium grained	
		Generally pinkish in colour but medium green chloritic sections locally and predominant (possible shearing throughout this zone 588' to 677').	
		Int-felsic intrusives	
		626.7' - 628.9'	
		629.8' - 631.7'	
		643.6' - 648.3'	
		Volcanic xeno? near upper contact 504.0 - 510.2	
		Minor quartz CA veinlets present throughout intersection.	
746.0		EOH	

EXPLORATION MINIERE BONANZA METALS INC.

Grid co-ordinates 29+00N 49+00W

Range _____ Lot _____

_____ Meters _____ of Range _____

_____ Meters east of Lot _____

Direction 180° Dip -45°

Depth of casing 154° Feet _____ Meters _____

Final depth of hole 1 216 Feet _____ Meters _____

Logging Started 25-02-90

Logging Finished 28-02-90

Logged by J. Kenwood/J. Siriunas

Section Complete _____

Visual Log Complete _____

COMMENTS: _____

Trace Cp blebs with Qtz + calcite

in fractures near EOH

PROPERTY CHARLIM

HOLE # CH-90-06

DATE STARTED 20-02-90

DATE FINISHED 27-02-90

Reason drilled: _____

Acid tests:

Depth Feet	Meters	Tube Angle	Corrected Dip
200			-44 1/2 °
300			-45 1/2 °
400			-44 1/2 °
600			-42 1/2 °
800			-41 1/2 °
906			-41 1/2 °

Trophy tests:

Depth	Direction Read	Corrected Direction	Dip
500	198 1/2 SW		-43°
700	201 SW		-42°
1000	204 SW		-40°
1100	206 1/2 SW		-40°
1216	210 SW		-38°

DEPTH (FEET)	NO	DE	A	LONG	% Zn	% Cu	g/t Ag	oz/t Au				
0.0	154.0	Overburden, casing left in hole and capped.										
154.0	448.7	10-A INT-FELSIC INTRUSIVE Minor feldspar crystals, few sections with abundant chloritic fragments or inclusions.										
448.7	535.4	4C INT-FELSIC AGGLOMERATE Intense silicification, local "granodioritic" texture										
535.4	606.0	4A INT-FELSIC AGGLOMERATE Only locally silicified, but fairly chloritic especially matrix, moderately developed fabric @ 45-50° TCA										
		571.5 - 579.0	Minor Py stringers + diss.	2-3% Py	11399	571.0	575.0	4	0.01	0.15	1.1	0.005
					11400	575.0	579.0	4	0.05	0.15	1.3	0.005
					11401	579.0	583.0	4	0.01	0.03	0.20	0.005
606.0	722.8	4C INT-FELSIC AGGLOMERATE Intense silicification, locally "granodioritic" texture, similar to 448.7 - 535.4										
		657.4	Slip fault; 3mm gouge @ 30° TCA									
		700.2 - 704.7	Intermediate dyke, moderate carbonatization throughout									
722.8	780.6	INT-FELSIC TUFF Moderately silicified, locally narrow sections of chloritic alteration										
		742.8 - 743.1	Moderately sheared minor gouge; slip fault									
		759.7 - 760.2	Low angle fault, 2mm gouge									
780.6	852.1	5Ax1 INTERMEDIATE FELDSPAR CRYSTAL AND LITHIC TUFF Medium green with 5% subangular feldspar crystal fragments (1-3mm) and 5-15% rounded chloritized lithic fragments (2-10mm); unit looks remarkably like an intermediate dyke except for the presence of lithic clasts.										

NO	DE	A	LONG	% Zn	% Cu	g/t Ag	oz/t Au
	780.6 - 781.6						
	850.2 - 852.1						
852.1	1216.0	5C					
		SILICIFIED INT-FELSIC TUFF					
		Medium grey with a white mottling due to moderate to strong pervasive silicification, narrow sections (<1ft) of chloritic alteration.					
	971.9 - 992.8	Intermediate dyke, moderate carbonatization throughout					
	975.7 - 992.9	Fault subparallel TCA, locally wallrock strongly fractured with sections of crush breccia and 5mm of gouge. Late fault, postdates dyke emplacement					
	1084.6	One inch quartz-calcite vein @ 80° TCA	tr Cp	11402	1084.0	1086.0	2 0.01 0.02 0.1 0.005
	1112.2	Trace Cp associated with chloritic fracture filling	tr Cp	11403	1111.0	1115.0	4 0.01 0.004 0.1 0.005
	1147.5 - 1150.3	Trace Cp in fractures with quartz - calcite	tr Cp	11404	1147.0	1151.0	4 0.01 0.11 0.5 0.005
	1174.7 - 1175.2	Trace Py in fractures	tr Py	11405	1174.0	1176.0	2 0.01 0.02 0.2 0.005
	1207.7 - 1208.7	Trace Cp in fractures	tr Cp	11406	1207.0	1210.0	3 0.01 0.01 0.2 0.005
1216.0		EOH (J. Kerwood/J. Siriunas)					



ASSAYERS

LABORATOIRES/LABORATORIES

DIVISION DE/OF ASSAYERS CORPORATION LTD.

780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

0R-0710-RA1

Comp: **BONANZA METALS INC.**
Proj: **JOU-010**
Attn:

Date: **MAI/MAY-14-90**

Nombre D'Echantillons/No. of Samples:

Soumis le/Submitted: **MAI/MAY-09-90**

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AG PPM	CU %	ZN %
11399	27			2.3	0.12	0.03
11400	32			1.3	0.15	0.05
11401	14	11	16	0.2	0.03	0.01
11402	48			0.1	0.02	0.01
11403	21			0.1	0.004	0.01
11404	62			0.5	0.11	0.01
11405	16			0.2	0.02	0.01
11406	64			0.2	0.01	0.01
10076	34	27	41	0.2	0.02	0.45
10077	5			0.3	0.003	0.03
10078	18			0.3	0.004	0.01
10079	18			0.2	0.001	0.003
10080	56			0.1	0.002	0.004
10081	16			0.1	0.001	0.001
10082	62			2.9	0.37	0.02

Certifie par/Certified by *A. J. Roy*

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