Rimfire Minerals Corporation
Northgate Minerals Corporation

2005 GEOLOGICAL, GEOCHEMICAL AND DIAMOND DRILLING REPORT ON THE RDN CLAIMS

Volume II - Figures

Located in the Eskay Creek Area
Liard Mining Division
NTS 104B/15E, 104G/2E
57° 00 North Latitude
130° 39' West Longitude

-prepared for-

RIMFIRE MINERALS CORPORATION
Suite 700, 700 West Pender Street
Vancouver, B.C., Canada
V6C 1G8

NORTHGATE MINERALS CORPORATION
404 - 815 Hornby Street
Vancouver, B.C., Canada
V6Z 2E6

-prepared by-

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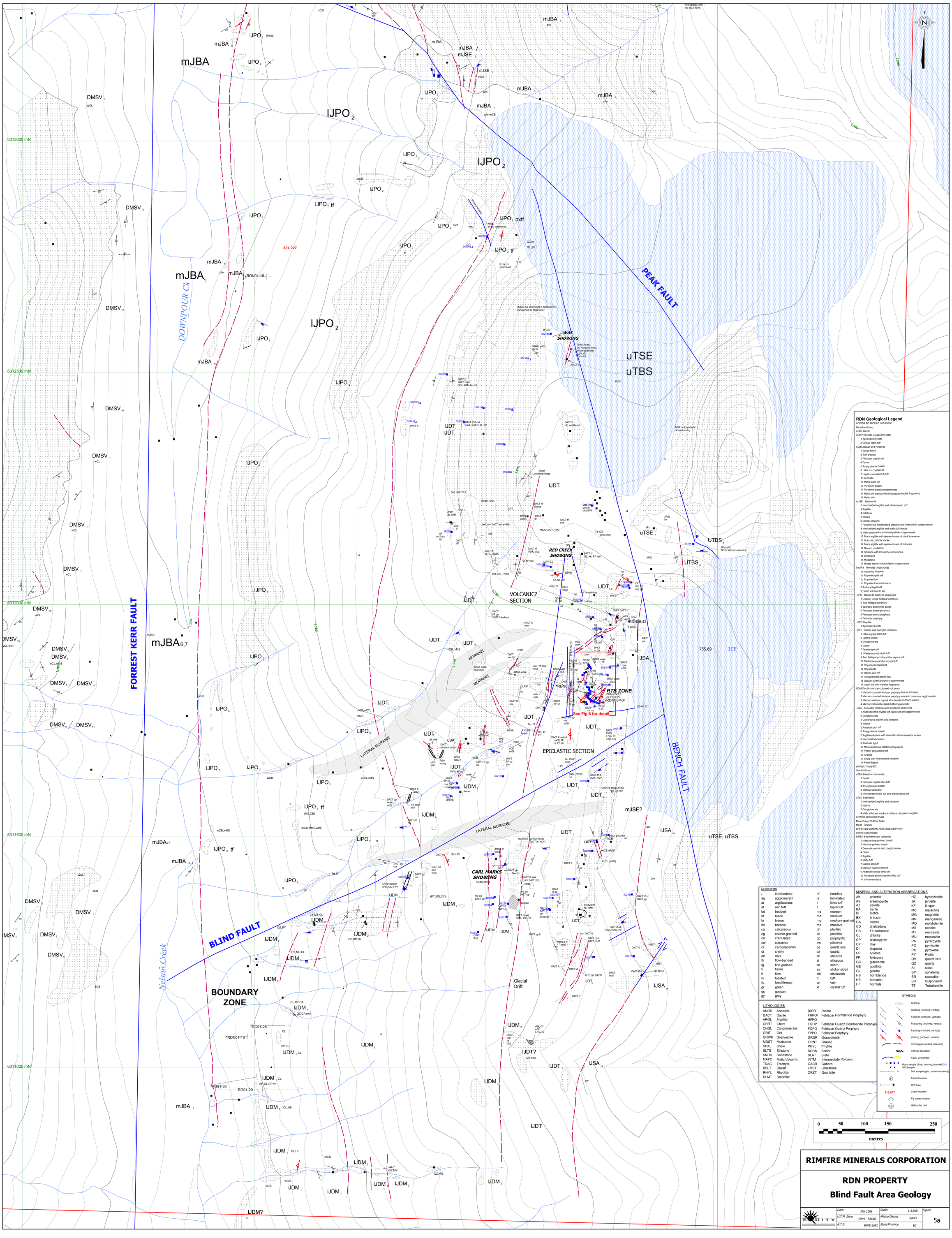
January 2006



RDN Geological Legend

LOWER TO MIDDLE JURASSIC
Hazelton Group
mJDI Diorite
mJRY Rhyolite (Logan Rhyolite)
1 Aphanitic Rhyolite
2 Crystal lapilli tuff
mJBA Basalt and Andesite
1 Basalt flows
2 Tuff-breccia
3 Feldspar crystal tuff
4 Dykes
5 Amygdaloidal basalt
6 Lithic +/- crystal tuff
7 Lapilli-breccia bomb tuff
10 Andesite
11 Mafic lapilli tuff
12 Pyroxene basalt
13 Pyroxene basalt conglomerate
14 Mafic tuff-breccia with rhyodacite/rhyolite fragments
15 Mafic sills
mJSE Sediments
1 Interbedded argillite and siltstone/ash tuff
3 Argillite
4 Siltstone
5 Wacke
6 Cherty siltstone
7 Fossiliferous interbedded siltstone and heterolithic conglomerate
8 Interbedded argillite and mafic tuff-wacke
9 Mafic greywacke and chert pebble conglomerate
10 Black argillite with sparse lenses of black limestone
11 Dolomitic pebbly wacke
12 Black argillite with sparse lenses of dolomite
13 Maroon mudstone
14 Siltstone with limestone concretions
15 Limestone
16 Mudstone
17 Muddy matrix volcaniclastic conglomerate
l-mJRY Rhyolite (Arctic Grid)
1a Aphanitic Rhyolite
1b Rhyolite lapilli tuff
1c Rhyolite flow
1d Rhyolite flow to intrusion
2 Tuff and lapilli tuff
3 Felsic volcanic to sill
lJPO Dacitic to trachytic porphyries
1 Gossan Creek feldspar porphyry
2 Two feldspar porphyry
3 Sparsely porphyritic dacite
4 Feldspar-biotite porphyry
5 Feldspar-quartz porphyry
6 Feldspar porphyry
lJRY Rhyolite
1 Aphanitic rhyolite
lJDT Dacitic and trachytic volcanics
1 Lithic-crystal lapilli tuff
2 Dacitic wacke
3 Conglomerate
5 Dacite
7 Quartz-eye tuff
8 Welded crystal lapilli tuff
9 Two feldspar porphyry lithic crystal tuff
10 Carbonaceous lithic-crystal tuff
11 Rhyodacite lapilli tuff
12 Rhyodacite
13 Dacitic ash tuff
14 Amygdaloidal dacite flow
15 Gossan Creek porphyry agglomerate
16 Lapilli tuff with rhyolite fragments
lJDM Dacitic maroon-coloured volcanics
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2 Maroon crowded feldspar porphyry volcanic breccia or agglomerate
3 Maroon feldspar crystal lithic bedded tuff and wacke
4 Maroon heterolithic lapilli tuff/conglomerate
lJSA Andesitic volcanics and epiclastic sediments
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8 Interbedded clastics
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11 Pebbly greywacke/tuff
12 Argillite
13 Shale with interbedded siltstone
14 Pillow Basalt
UPPER TRIASSIC
Stuhini Group
uTBS Basalt and andesite
1 Basalt
3 Feldspar crystal lithic tuff
4 Amygdaloidal basalt
5 Massive andesite
6 Interbedded mafic tuff and argillaceous tuff
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1 Interbedded argillite and siltstone
2 Wacke
3 Conglomerate
4 Mafic siltstone wacke and black calcareous argillite
LOWER MISSISSIPPIAN
More Creek Plutonic Suite
MGR Granite
UPPER DEVONIAN AND MISSISSIPPIAN
Stikine Assemblage
DMSV Sediments and volcanics
1 Massive fine-grained basalt
2 Medium-grained basalt
3 Dolomitic wacke and conglomerate
4 Chert
5 Argillite
6 Mafic tuff
7 Dacitic ash tuff
8 Maroon wacke/siltstone
9 Andesitic crystal lithic tuff
10 Pyroxene-phyric basaltic lithic tuff
11 Siltstone/wacke

MODIFIERS

/	interbedded	hf	hornfels
ag	agglomerate	la	laminated
ar	argillaceous	li	lithic tuff
at	ash tuff	lt	lapilli tuff
bd	bedded	ma	maroon
bl	black	md	medium
br	brown	mg	medium-grained
bx	breccia	mx	massive
ca	calcareous	ph	phyllitic
cg	coarse-grained	pk	poikilitic
cn	crenulated	pp	porphyritic
col	columnar	pw	pillowed
cr	carbonaceous	qe	quartz eye
ct	cherty	qz	quartz
dk	dark	sh	sheared
fb	flow-banded	si	siliceous
fg	fine-grained	sk	skarn
fi	fissile	ss	slickensides
fl	flow	stk	stockwork
fo	foliated	tf	tuff
fs	fossiliferous	vn	vein
gr	green	xt	crystal tuff
gs	gossan		
gy	grey		

MINERAL AND ALTERATION ABBREVIATIONS

AK	ankerite	HZ	hydrozincite
AS	arsenopyrite	JA	jarosite
AZ	azurite	KF	K-spar
BA	barite	MC	malachite
BI	biotite	MG	magnetie
BX	breccia	MN	manganese
CA	calcite	MO	molybdenite
CD	chalcedony	MS	sericite
CB	Fe-carbonate	MT	marcasite
CL	chlorite	MU	muscovite
CP	chalcopyrite	PA	pyrargyrite
CY	clay	PO	pyrrhotite
DI	diopside	PX	pyroxene
EP	epidote	PY	Pyrite
FP	feldspars	QV	quartz vein
GC	glauconite	QZ	quartz
GE	goethite	SI	silica
GL	galena	SP	sphalerite
HB	hornblende	SR	scorodite
HE	hematite	SS	Sulphosalts
HF	hornfels	TT	Tetrahedrite

LITHOLOGIES

ANDS	Andesite	DIOR	Diorite
DACT	Dacite	FHPO/ HFPO	Feldspar Hornblende Porphyry
ARGL	Argillite		
CHRT	Chert	FQHP	Feldspar Quartz Hornblende Porphyry
CNGL	Conglomerate	FQPO	Feldspar Quartz Porphyry
GRIT	Grit	FPPO	Feldspar Porphyry
GRWK	Greywacke	GRDR	Granodiorite
MDST	Mudstone	GRNT	Granite
SHAL	Shale	PHYL	Phyllite
SLTS	Siltstone	SCHS	Schist
SNDS	Sandstone	SLAT	Slate
MAFC	Mafic Volcanic	INTM	Intermediate Volcanic
TRAC	Trachyte	GABR	Gabbro
BSLT	Basalt	LMST	Limestone
RHYL	Rhyolite	QRZT	Quartzite
DLMT	Dolomite		

SYMBOLS

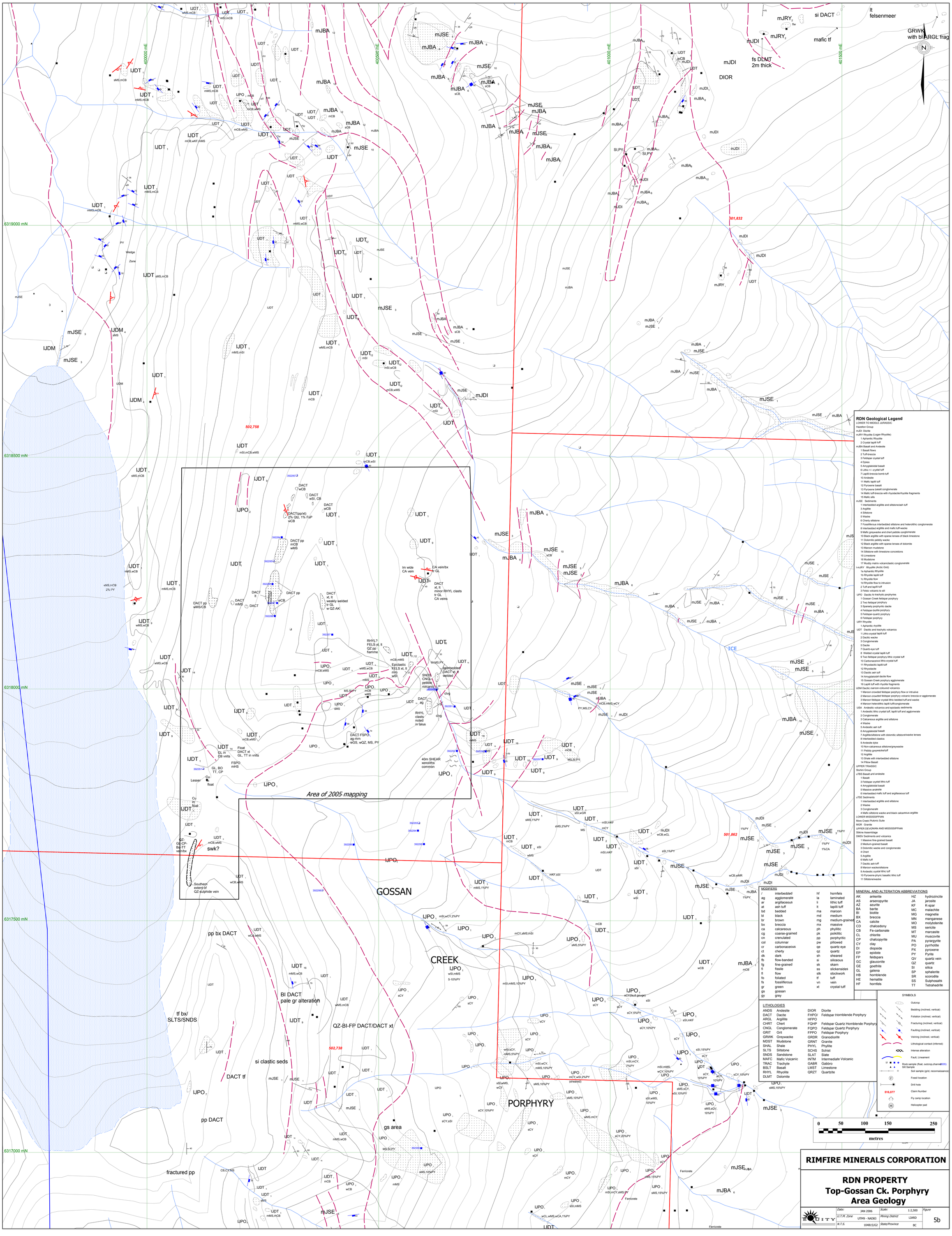
Outcrop
Bedding (inclined, vertical)
Foliation (inclined, vertical)
Fracturing (inclined, vertical)
Faulting (inclined, vertical)
Veining (inclined, vertical)
Lithological contact (inferred)
Intense alteration
Fault, Lineament
Rock sample (float, outcrop,channel) 2005)
Silt Sample
Soil sample (grid, reconnaissance)
Fossil location
Drill hole
516,877 Claim Number
Fly camp location
Helicopter pad

RIMFIRE MINERALS CORPORATION

RDN PROPERTY

Blind Fault Area Geology

Date:	JAN 2006	Scale:	1:2,500	Figure
U.T.M. Zone	UTM9 - NAD83	Mining District	LIARD	5a
N.T.S.	104B15/G2	State/Province	BC	


400000 mE
400500 mE
401000 mE
401500 mE
6319000 mN
6318500 mN
6318000 mN
6317500 mN
6317000 mN
GRWK with bl ARGL frag
si DACT
lt felsenmeer
mafic tf
fs DLMT 2m thick
DIOR
Area of 2005 mapping
GOSSAN
CREEK
PORPHYRY
swk?
Southern extent of QZ-sulphide vein
BI DACT pale gr alteration
QZ-BI-FP DACT/DACT xt
tf bx/ SLTS/SNDS
si clastic seds
DACT tf
pp DACT
pp bx DACT
fractured pp
gs area
ICE
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MODIFIERS
/ interbedded
ag agglomerate
ar argillaceous
at ash tuff
bd bedded
bl black
br brown
bx breccia
ca calcareous
cg coarse-grained
cn crenulated
col columnar
cr carbonaceous
ct cherty
dk dark
fb flow-banded
fg fine-grained
fl fissile
fl flow
fo foliated
fs fossiliferous
gr green
gs gossan
gy grey
hf hornfels
la laminated
li lithic tuff
lt lapilli tuff
ma maroon
md medium
mg medium-grained
mx massive
ph phyllitic
pk poikilitic
pp porphyritic
pw pillowed
qe quartz eye
qz quartz
sh sheared
si siliceous
sk skarn
ss slickensides
stk stockwork
tf tuff
vn vein
xt crystal tuff
MINERAL AND ALTERATION ABBREVIATIONS
AK ankerite
AS arsenopyrite
AZ azurite
BA barite
BI biotite
BX breccia
CA calcite
CD chalcedony
CB Fe-carbonate
CL chlorite
CP chalcopyrite
CY clay
DI diopside
EP epidote
FP feldspars
GC glauconite
GE goethite
GL galena
HB hornblende
HE hematite
HF hornfels
HZ hydrozincite
JA jarosite
KF K-spar
MC malachite
MG magnetie
MN manganese
MO molybdenite
MS sericite
MT marcasite
MU muscovite
PA pyrargyrite
PO pyrrhotite
PX pyroxene
PY Pyrite
QV quartz vein
QZ quartz
SI silica
SP sphalerite
SR scorodite
SS Sulphosalts
TT Tetrahedrite
LITHOLOGIES
ANDS Andesite
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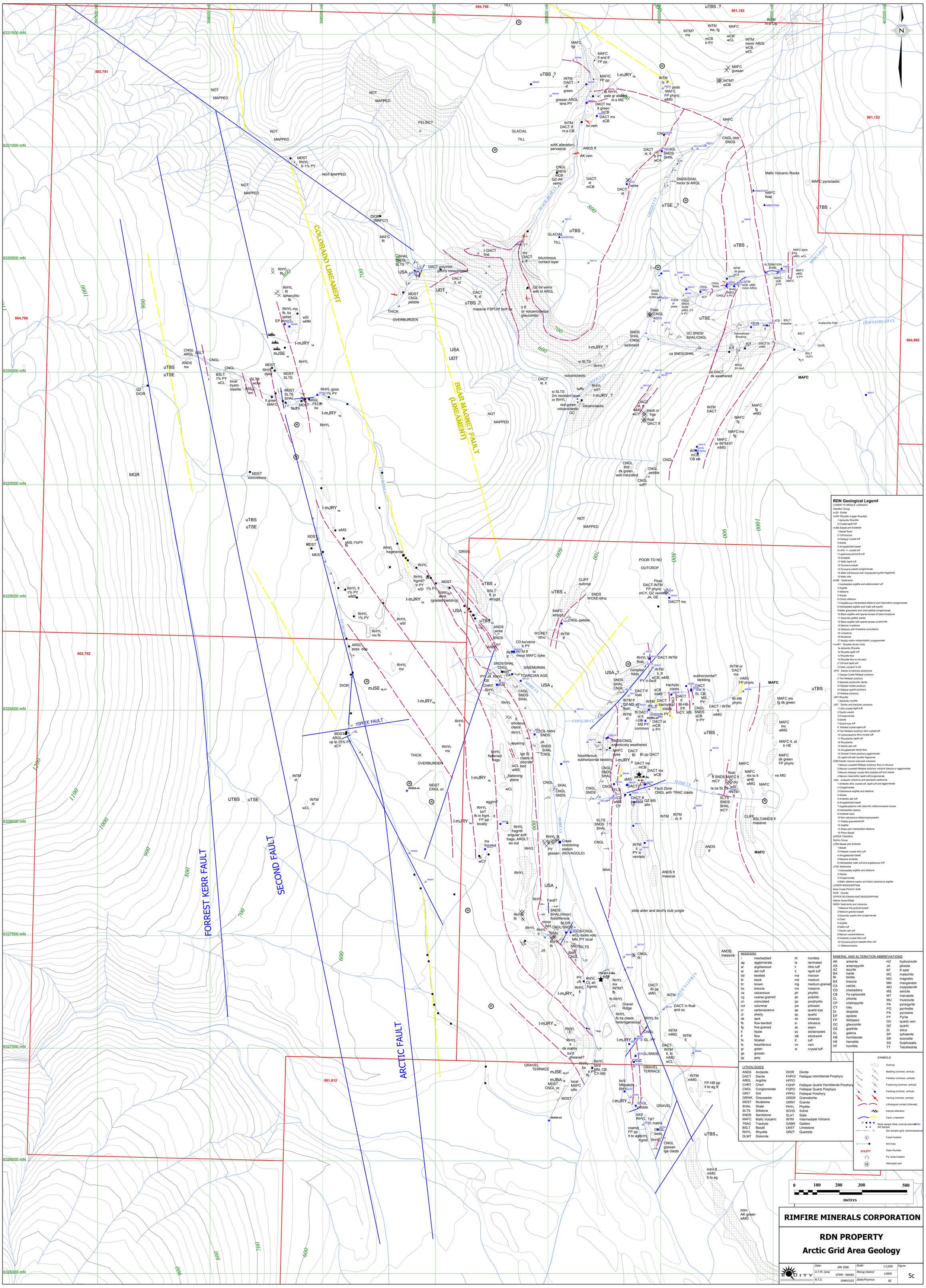
Silt Sample
Soil sample (grid, reconnaissance)
Fossil location
Drill hole
Claim Number
Fly camp location
Helicopter pad
0 50 100 150 250
metres
RIMFIRE MINERALS CORPORATION
RDN PROPERTY
Top-Gossan Ck. Porphyry
Area Geology
Date: JAN 2006
Scale: 1:2,500
Figure 5b
U.T.M. Zone UTM9 - NAD83
Mining District LIARD
N.T.S. 104B15/G2
State/Province BC



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RDN PROPERTY

Arctic Grid Area Geology

Date: JAN 2006	Scale: 1:5,000	Figure 5c
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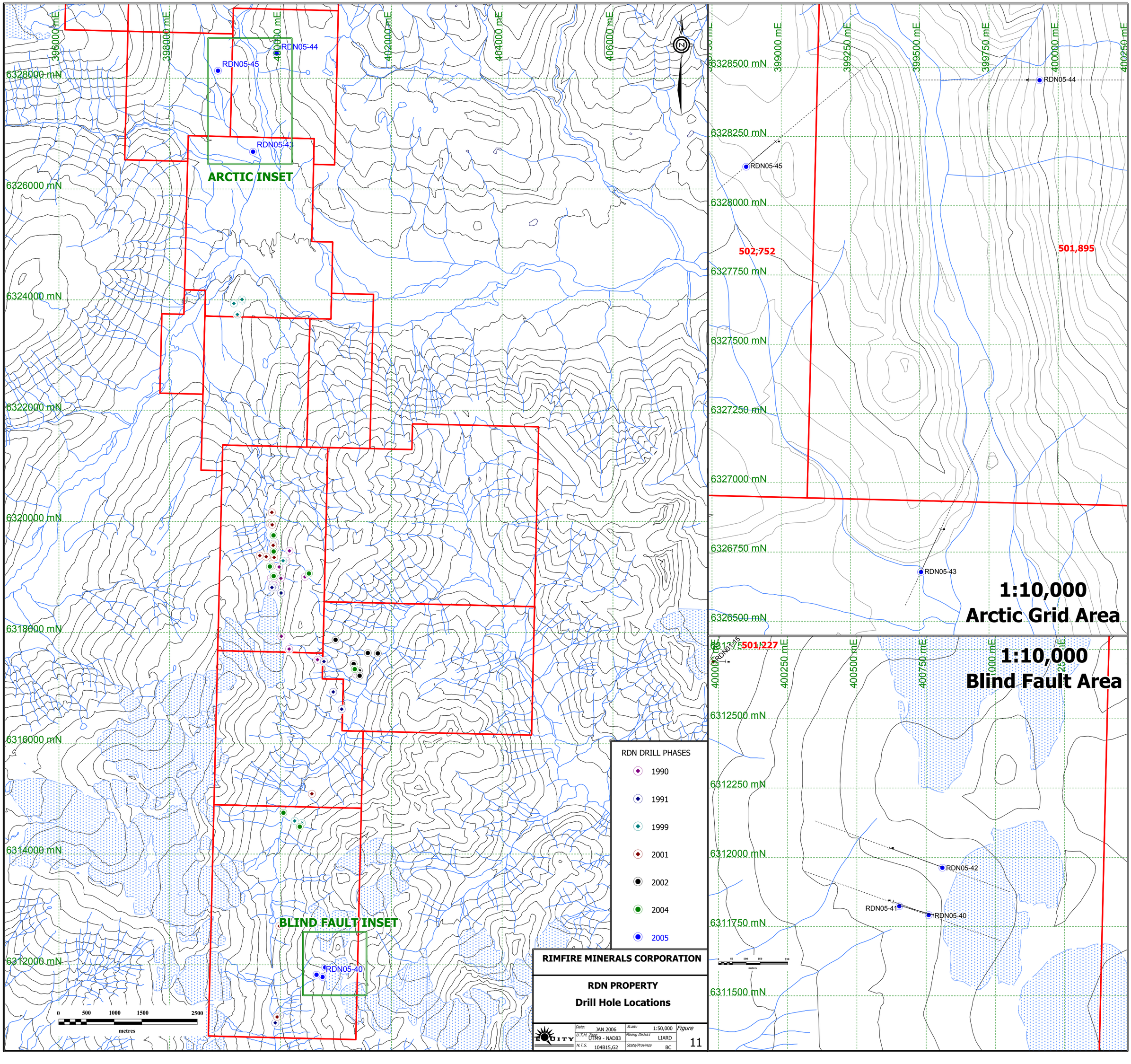
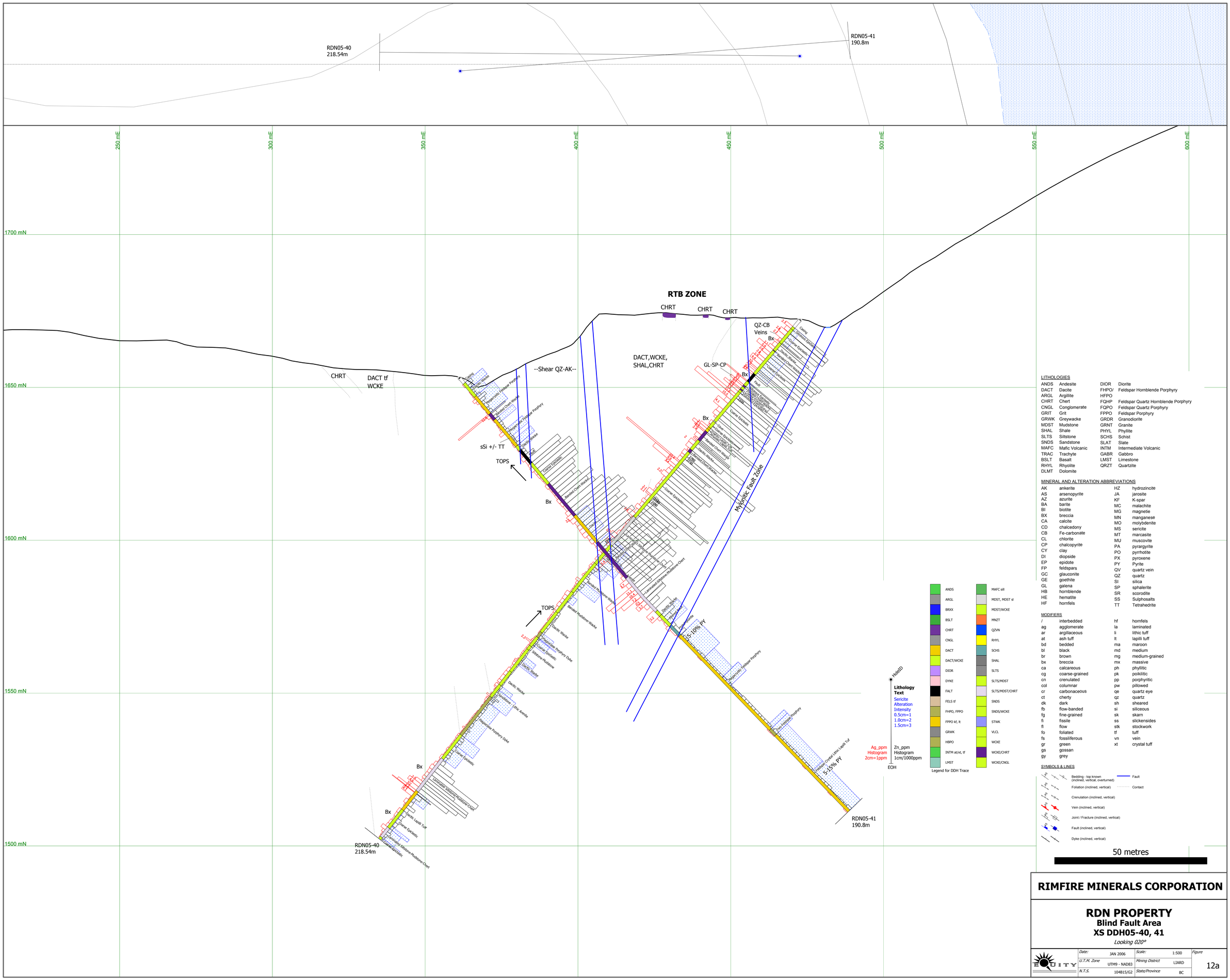
N.T.S. 104B15/G2	State/Province BC	


ARCTIC INSET
BLIND FAULT INSET
RDN05-44
RDN05-45
RDN05-43
RDN05-40
RDN05-42
RDN05-41
RDN05-15
502,752
501,895
501,227
1:10,000
Arctic Grid Area
1:10,000
Blind Fault Area
RDN DRILL PHASES
1990
1991
1999
2001
2002
2004
2005
0 500 1000 1500 2500
metres
RIMFIRE MINERALS CORPORATION
RDN PROPERTY
Drill Hole Locations
EQUITY
Date: JAN 2006
Scale: 1:50,000
Figure
U.T.M. Zone: UTM9 - NAD83
Mining District: LIARD
N.T.S. 104B15,G2
State/Province: BC
11



LITHOLOGIES

ANDS	Andesite	DIOR	Diorite
DACT	Dacite	FHPO/ HFPO	Feldspar Hornblende Porphyry
ARGL	Argillite		
CHRT	Chert	FQHP	Feldspar Quartz Hornblende Porphyry
CNGL	Conglomerate	FQPO	Feldspar Quartz Porphyry
GRIT	Grit	FPPO	Feldspar Porphyry
GRWK	Greywacke	GRDR	Granodiorite
MDST	Mudstone	GRNT	Granite
SHAL	Shale	PHYL	Phyllite
SLTS	Siltstone	SCHS	Schist
SNDS	Sandstone	SLAT	Slate
MAFC	Mafic Volcanic	INTM	Intermediate Volcanic
TRAC	Trachyte	GABR	Gabbro
BSLT	Basalt	LMST	Limestone
RHYL	Rhyolite	QRZT	Quartzite
DLMT	Dolomite		

MINERAL AND ALTERATION ABBREVIATIONS

AK	ankerite	HZ	hydrozincite
AS	arsenopyrite	JA	jarosite
AZ	azurite	KF	K-spar
BA	barite	MC	malachite
BI	biotite	MG	magnetie
BX	breccia	MN	manganese
CA	calcite	MO	molybdenite
CD	chalcedony	MS	sericite
CB	Fe-carbonate	MT	marcasite
CL	chlorite	MU	muscovite
CP	chalcopyrite	PA	pyrargyrite
CY	clay	PO	pyrrhotite
DI	diopside	PX	pyroxene
EP	epidote	PY	Pyrite
FP	feldspars	QV	quartz vein
GC	glauconite	QZ	quartz
GE	goethite	SI	silica
GL	galena	SP	sphalerite
HB	hornblende	SR	scorodite
HE	hematite	SS	Sulphosalts
HF	hornfels	TT	Tetrahedrite

MODIFIERS

/	interbedded	hf	hornfels
ag	agglomerate	la	laminated
ar	argillaceous	li	lithic tuff
at	ash tuff	lt	lapilli tuff
bd	bedded	ma	maroon
bl	black	md	medium
br	brown	mg	medium-grained
bx	breccia	mx	massive
ca	calcareous	ph	phyllitic
cg	coarse-grained	pk	poikilitic
cn	crenulated	pp	porphyritic
col	columnar	pw	pillowed
cr	carbonaceous	qe	quartz eye
ct	cherty	qz	quartz
dk	dark	sh	sheared
fb	flow-banded	si	siliceous
fg	fine-grained	sk	skarn
fi	fissile	ss	slickensides
fl	flow	stk	stockwork
fo	foliated	tf	tuff
fs	fossiliferous	vn	vein
gr	green	xt	crystal tuff
gs	gossan		
gy	grey		

SYMBOLS & LINES

Bedding - top known (inclined, vertical, overturned)
Foliation (inclined, vertical)
Crenulation (inclined, vertical)
Vein (inclined, vertical)
Joint / Fracture (inclined, vertical)
Fault (inclined, vertical)
Dyke (inclined, vertical)
Fault
Contact

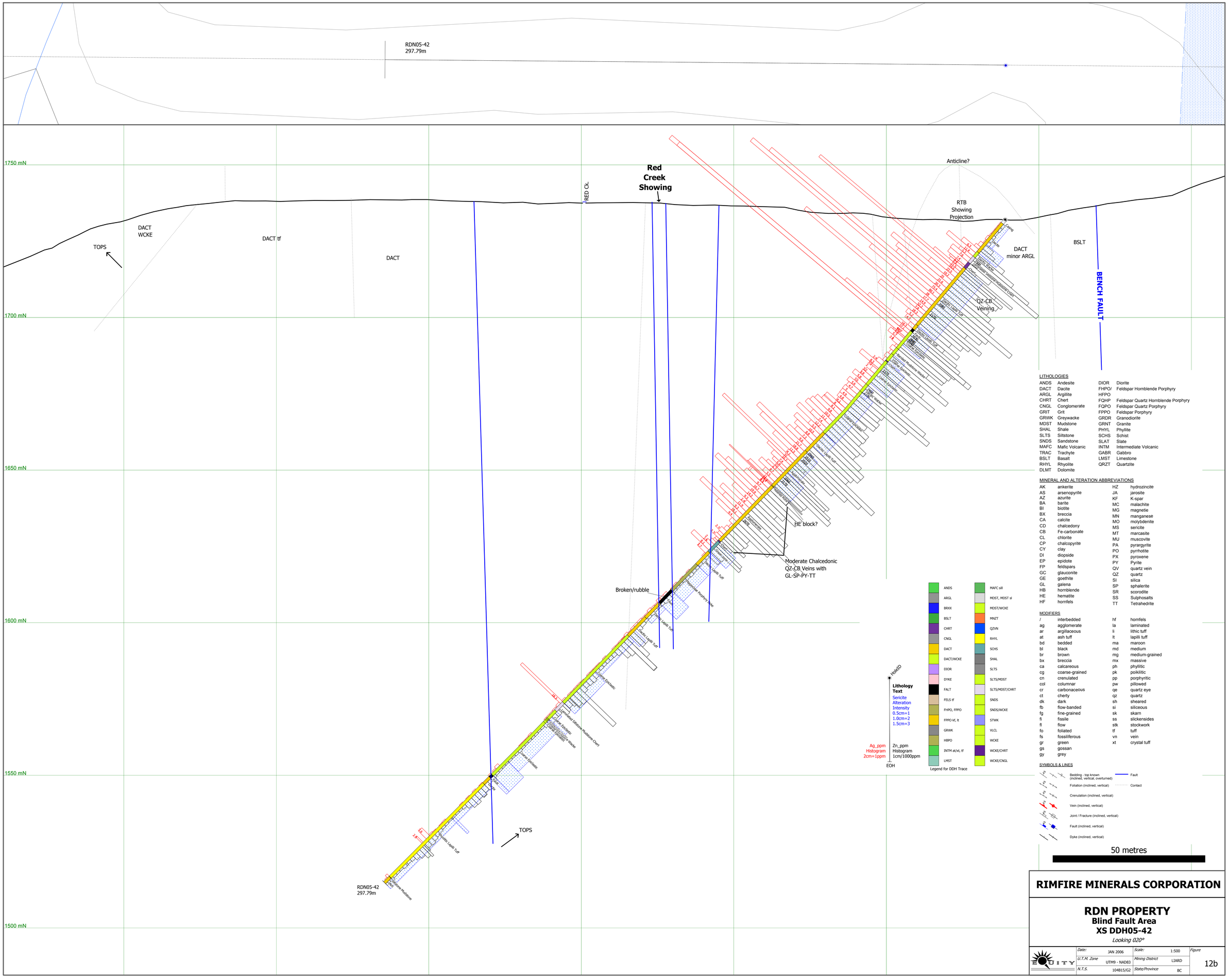
50 metres

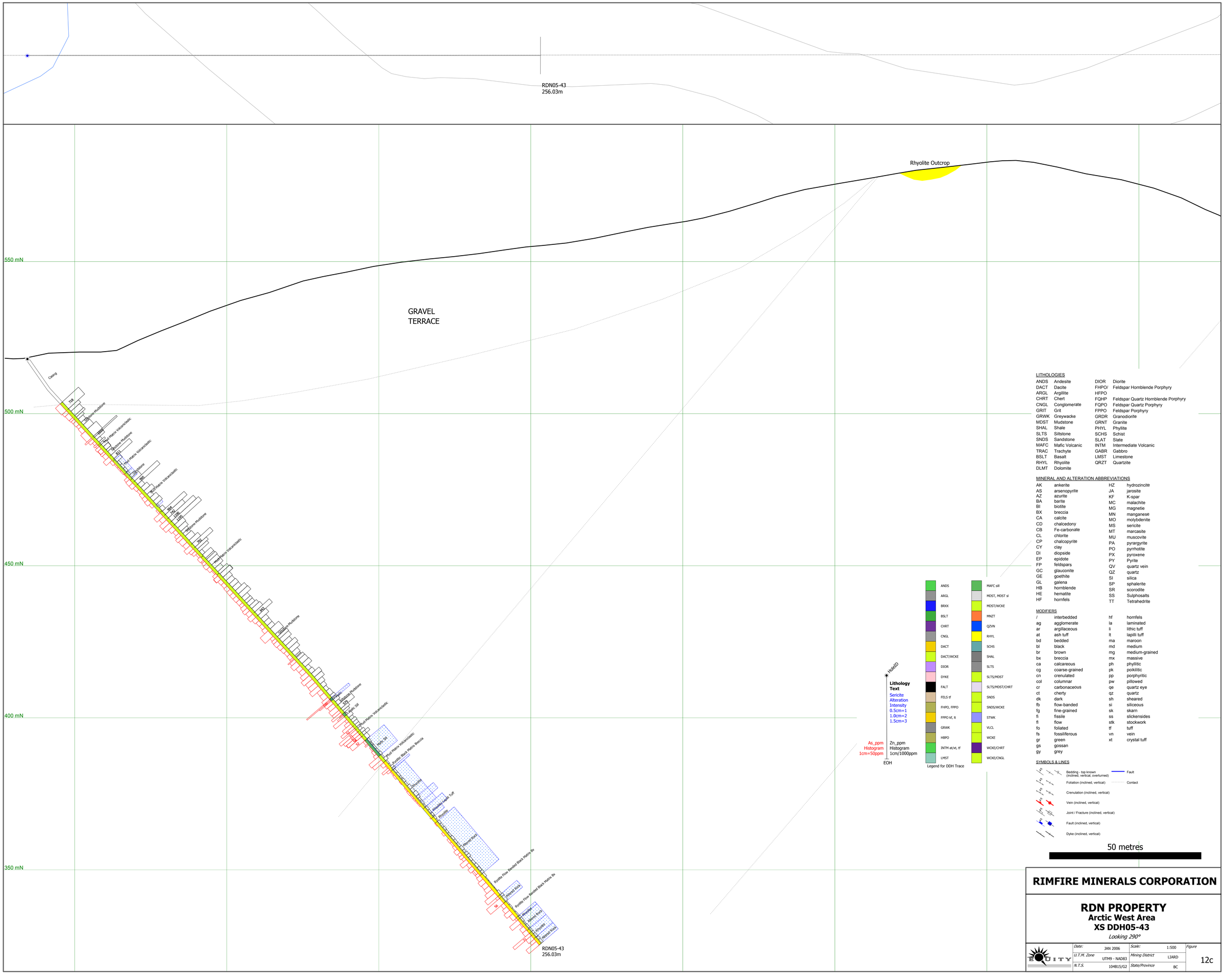
RIMFIRE MINERALS CORPORATION

RDN PROPERTY
Blind Fault Area
XS DDH05-40, 41

Looking 020°

EQUITY	Date:	JAN 2006	Scale:	1:500	Figure
	U.T.M. Zone	UTM9 - NAD83	Mining District	LIARD	12a
	N.T.S.	104B15/G2	State/Province	BC	


RDN05-42
297.79m
1750 mN
1700 mN
1650 mN
1600 mN
1550 mN
1500 mN
Red Creek Showing
RED Ck.
Anticline?
RTB Showing Projection
DACT WCKE
DACT tf
DACT
TOPS
DACT minor ARGL
BSLT
BENCH FAULT
QZ-CB Veining
HE block?
Moderate Chalcedonic QZ-CB Veins with GL-SP-PY-TT
Broken/rubble
TOPS
RDN05-42
297.79m
HoleID
Lithology
Text
Sericite
Alteration
Intensity
0.5cm=1
1.0cm=2
1.5cm=3
Ag_ppm
Histogram
2cm=1ppm
Zn_ppm
Histogram
1cm/1000ppm
EOH
Legend for DDH Trace
ANDS
ARGL
BRXX
BSLT
CHRT
CNGL
DACT
DACT/WCKE
DIOR
DYKE
FALT
FELS tf
FHPO, FPPO
FPPO kf, lt
GRWK
HBPO
INTM at/xt, tf
LMST
MAFC sill
MDST, MDST sl
MDST/WCKE
MNZT
QZVN
RHYL
SCHS
SHAL
SLTS
SLTS/MDST
SLTS/MDST/CHRT
SNDS
SNDS/WCKE
STWK
VLCL
WCKE
WCKE/CHRT
WCKE/CNGL
LITHOLOGIES
ANDS Andesite
DACT Dacite
ARGL Argillite
CHRT Chert
CNGL Conglomerate
GRIT Grit
GRWK Greywacke
MDST Mudstone
SHAL Shale
SLTS Siltstone
SNDS Sandstone
MAFC Mafic Volcanic
TRAC Trachyte
BSLT Basalt
RHYL Rhyolite
DLMT Dolomite
DIOR Diorite
FHPO/ HFPO Feldspar Hornblende Porphyry
FQHP Feldspar Quartz Hornblende Porphyry
FQPO Feldspar Quartz Porphyry
FPPO Feldspar Porphyry
GRDR Granodiorite
GRNT Granite
PHYL Phyllite
SCHS Schist
SLAT Slate
INTM Intermediate Volcanic
GABR Gabbro
LMST Limestone
QRZT Quartzite
MINERAL AND ALTERATION ABBREVIATIONS
AK ankerite
AS arsenopyrite
AZ azurite
BA barite
BI biotite
BX breccia
CA calcite
CD chalcedony
CB Fe-carbonate
CL chlorite
CP chalcopyrite
CY clay
DI diopside
EP epidote
FP feldspars
GC glauconite
GE goethite
GL galena
HB hornblende
HE hematite
HF hornfels
HZ hydrozincite
JA jarosite
KF K-spar
MC malachite
MG magnetie
MN manganese
MO molybdenite
MS sericite
MT marcasite
MU muscovite
PA pyrargyrite
PO pyrrhotite
PX pyroxene
PY Pyrite
QV quartz vein
QZ quartz
SI silica
SP sphalerite
SR scorodite
SS Sulphosalts
TT Tetrahedrite
MODIFIERS
/ interbedded
ag agglomerate
ar argillaceous
at ash tuff
bd bedded
bl black
br brown
bx breccia
ca calcareous
cg coarse-grained
cn crenulated
col columnar
cr carbonaceous
ct cherty
dk dark
fb flow-banded
fg fine-grained
fl fissile
fl flow
fo foliated
fs fossiliferous
gr green
gs gossan
gy grey
hf hornfels
la laminated
li lithic tuff
lt lapilli tuff
ma maroon
md medium
mg medium-grained
mx massive
ph phyllitic
pk poikilitic
pp porphyritic
pw pillowed
qe quartz eye
qz quartz
sh sheared
si siliceous
sk skarn
ss slickensides
stk stockwork
tf tuff
vn vein
xt crystal tuff
SYMBOLS & LINES
Bedding - top known (inclined, vertical, overturned)
Foliation (inclined, vertical)
Crenulation (inclined, vertical)
Vein (inclined, vertical)
Joint / Fracture (inclined, vertical)
Fault (inclined, vertical)
Dyke (inclined, vertical)
Fault
Contact
50 metres
RIMFIRE MINERALS CORPORATION
RDN PROPERTY
Blind Fault Area
XS DDH05-42
Looking 020°
Date: JAN 2006
Scale: 1:500
Figure 12b
U.T.M. Zone UTM9 - NAD83
Mining District LIARD
N.T.S. 104B15/G2
State/Province BC

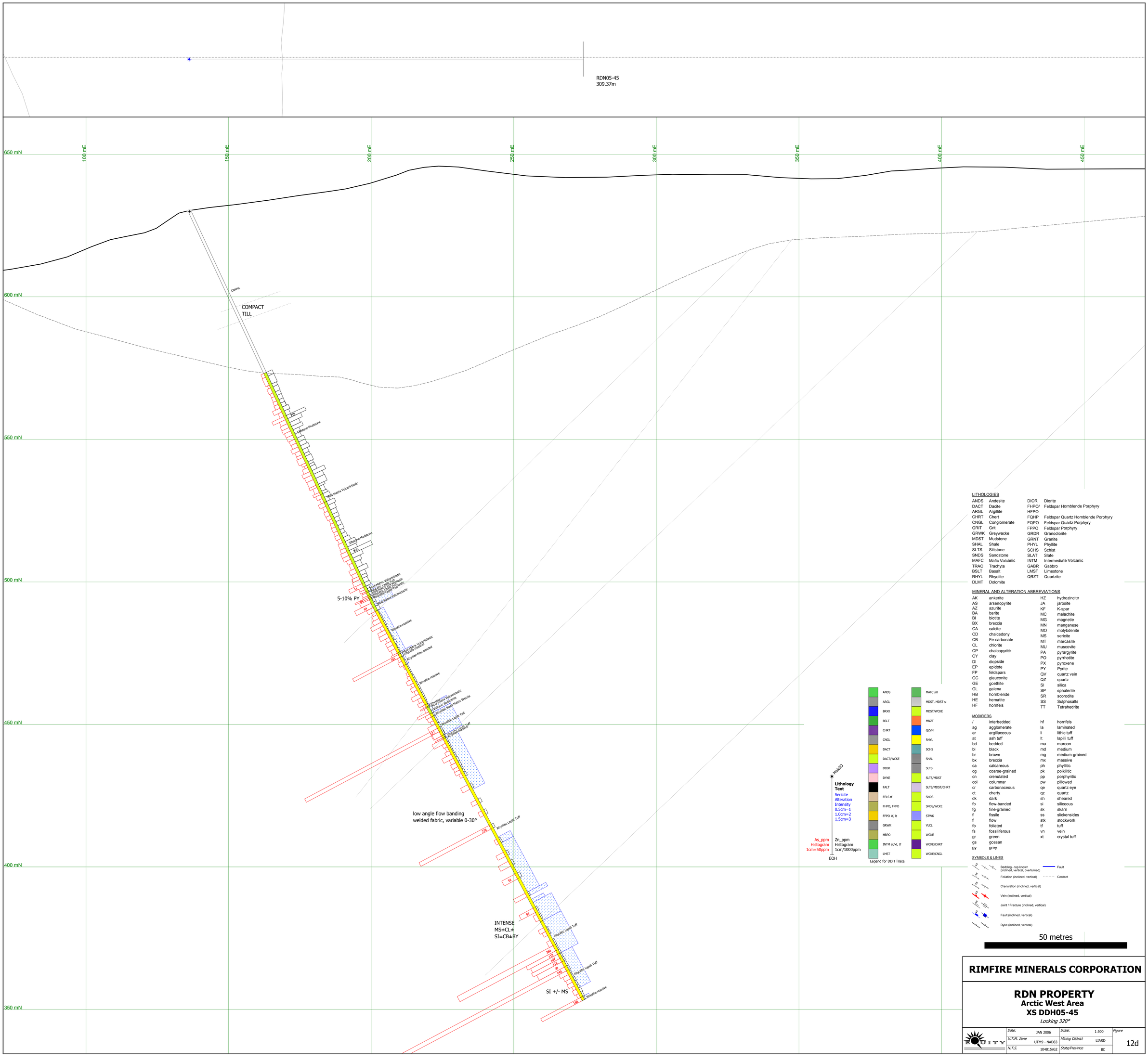


RIMFIRE MINERALS CORPORATION

RDN PROPERTY
Arctic West Area
XS DDH05-43

Looking 290°

Date: JAN 2006	Scale: 1:500	Figure 12c
U.T.M. Zone UTM9 - NAD83	Mining District LIARD	
N.T.S. 104B15/G2	State/Province BC	



LITHOLOGIES

ANDS	Andesite	DIOR	Diorite
DACT	Dacite	FHPO/	Feldspar Hornblende Porphyry
ARGL	Argillite	HFPO	
CHRT	Chert	FQHP	Feldspar Quartz Hornblende Porphyry
CNGL	Conglomerate	FQPO	Feldspar Quartz Porphyry
GRIT	Grit	FPPO	Feldspar Porphyry
GRWK	Greywacke	GRDR	Granodiorite
MDST	Mudstone	GRNT	Granite
SHAL	Shale	PHYL	Phyllite
SLTS	Siltstone	SCHS	Schist
SNDS	Sandstone	SLAT	Slate
MAFC	Mafic Volcanic	INTM	Intermediate Volcanic
TRAC	Trachyte	GABR	Gabbro
BSLT	Basalt	LMST	Limestone
RHYL	Rhyolite	QRZT	Quartzite
DLMT	Dolomite		

MINERAL AND ALTERATION ABBREVIATIONS

AK	ankerite	HZ	hydrozincite
AS	arsenopyrite	JA	jarosite
AZ	azurite	KF	K-spar
BA	barite	MC	malachite
BI	biotite	MG	magnetie
BX	breccia	MN	manganese
CA	calcite	MO	molybdenite
CD	chalcedony	MS	sericite
CB	Fe-carbonate	MT	marcasite
CL	chlorite	MU	muscovite
CP	chalcopyrite	PA	pyrargyrite
CY	clay	PO	pyrrhotite
DI	diopside	PX	pyroxene
EP	epidote	PY	Pyrite
FP	feldspars	QV	quartz vein
GC	glauconite	QZ	quartz
GE	goethite	SI	silica
GL	galena	SP	sphalerite
HB	hornblende	SR	scorodite
HE	hematite	SS	Sulphosalts
HF	hornfels	TT	Tetrahedrite

MODIFIERS

/	interbedded	hf	hornfels
ag	agglomerate	la	laminated
ar	argillaceous	li	lithic tuff
at	ash tuff	lt	lapilli tuff
bd	bedded	ma	maroon
bl	black	md	medium
br	brown	mg	medium-grained
bx	breccia	mx	massive
ca	calcareous	ph	phyllitic
cg	coarse-grained	pk	poikilitic
cn	crenulated	pp	porphyritic
col	columnar	pw	pillowed
cr	carbonaceous	qe	quartz eye
ct	cherty	qz	quartz
dk	dark	sh	sheared
fb	flow-banded	si	siliceous
fg	fine-grained	sk	skarn
fi	fissile	ss	slickensides
fl	flow	stk	stockwork
fo	foliated	tf	tuff
fs	fossiliferous	vn	vein
gr	green	xt	crystal tuff
gs	gossan		
gy	grey		

SYMBOLS & LINES

Bedding - top known (inclined, vertical, overturned)
Foliation (inclined, vertical)
Crenulation (inclined, vertical)
Vein (inclined, vertical)
Joint / Fracture (inclined, vertical)
Fault (inclined, vertical)
Dyke (inclined, vertical)
Fault
Contact

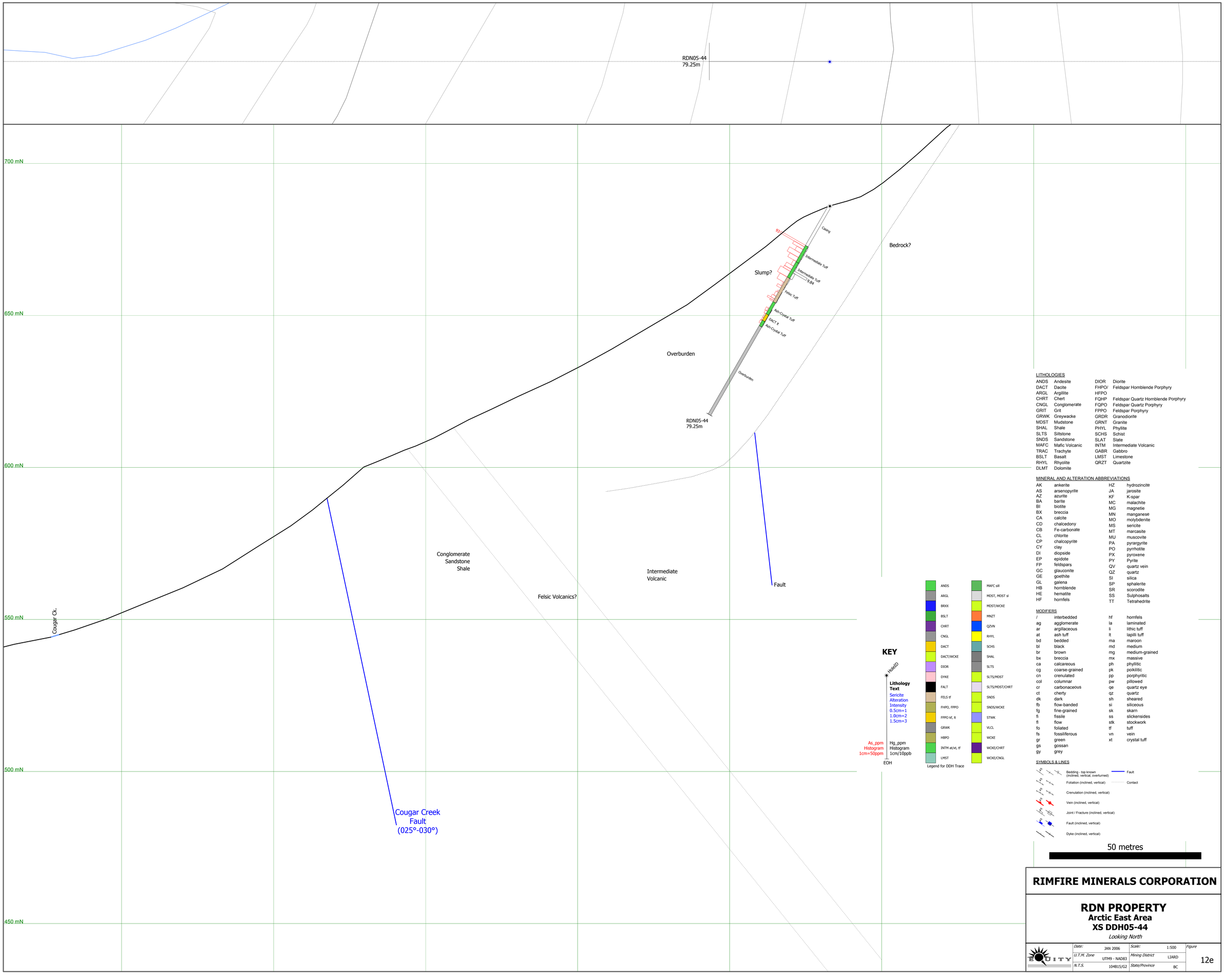
50 metres

RIMFIRE MINERALS CORPORATION

RDN PROPERTY
Arctic West Area
XS DDH05-45

Looking 320°

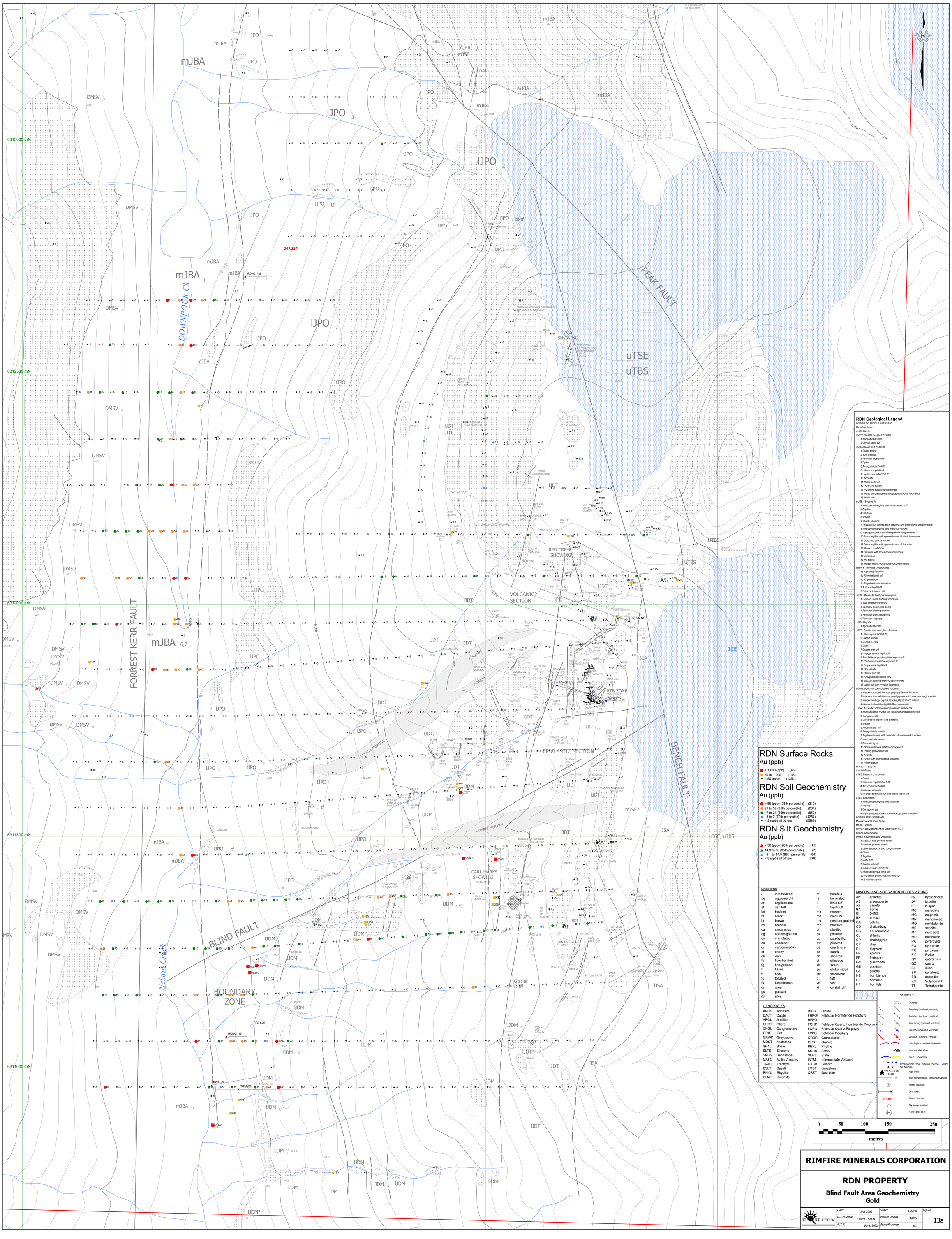
Date:	JAN 2006	Scale:	1:500	Figure
U.T.M. Zone	UTM9 - NAD83	Mining District	LIARD	12d
N.T.S.	104B15/G2	State/Province	BC	



RIMFIRE MINERALS CORPORATION

RDN PROPERTY
Arctic East Area
XS DDH05-44
Looking North

Date:	JAN 2006	Scale:	1:500	Figure
U.T.M. Zone	UTM9 - NAD83	Mining District	LIARD	12e
N.T.S.	104B15/G2	State/Province	BC	


RDN Geological Legend
LOWER TO MIDDLE JURASSIC
Hazelton Group
mJDI Diorite
mJRY Rhyolite (Logan Rhyolite)
1 Aphanitic Rhyolite
2 Crystal lapilli tuff
mJBA Basalt and Andesite
1 Basalt flows
2 Tuff-breccia
3 Feldspar crystal tuff
4 Dykes
5 Amygdaloidal basalt
6 Lithic +/- crystal tuff
7 Lapilli-breccia bomb tuff
10 Andesite
11 Mafic lapilli tuff
12 Pyroxene basalt
13 Pyroxene basalt conglomerate
14 Mafic tuff-breccia with rhyodacite/rhyolite fragments
15 Mafic sills
mJSE Sediments
1 Interbedded argillite and siltstone/ash tuff
3 Argillite
4 Siltstone
5 Wacke
6 Cherty siltstone
7 Fossiliferous interbedded siltstone and heterolithic conglomerate
8 Interbedded argillite and mafic tuff-wacke
9 Mafic greywacke and chert pebble conglomerate
10 Black argillite with sparse lenses of black limestone
11 Dolomitic pebbly wacke
12 Black argillite with sparse lenses of dolomite
13 Maroon mudstone
14 Siltstone with limestone concretions
15 Limestone
16 Mudstone
17 Muddy matrix volcaniclastic conglomerate
l-mJRY Rhyolite (Arctic Gird)
1a Aphanitic Rhyolite
1b Rhyolite lapilli tuff
1c Rhyolite flow
1d Rhyolite flow to intrusion
2 Tuff and lapilli tuff
3 Felsic volcanic to sill
lJPO Dacitic to trachytic porphyries
1 Gossan Creek feldspar porphyry
2 Two feldspar porphyry
3 Sparsely porphyritic dacite
4 Feldspar-biotite porphyry
5 Feldspar-quartz porphyry
6 Feldspar porphyry
lJRY Rhyolite
1 Aphanitic rhyolite
lJDT Dacitic and trachytic volcanics
1 Lithic-crystal lapilli tuff
2 Dacitic wacke
3 Conglomerate
5 Dacite
7 Quartz-eye tuff
8 Welded crystal lapilli tuff
9 Two feldspar porphyry lithic crystal tuff
10 Carbonaceous lithic-crystal tuff
11 Rhyodacitic lapilli tuff
12 Rhyodacite
13 Dacitic ash tuff
14 Amygdaloidal dacite flow
15 Gossan Creek porphyry agglomerate
16 Lapilli tuff with rhyolite fragments
lJDM Dacitic maroon-coloured volcanics
1 Maroon crowded feldspar porphyry flow or intrusive
2 Maroon crowded feldspar porphyry volcanic breccia or agglomerate
3 Maroon feldspar crystal lithic bedded tuff and wacke
4 Maroon heterolithic lapilli tuff/conglomerate
lJSA Andesitic volcanics and epiclastic sediments
1 Andesitic lithic crystal tuff, lapilli tuff and agglomerate
2 Conglomerate
3 Calcareous argillite and siltstone
4 Wacke
5 Andesitic ash tuff
6 Amygdaloidal basalt
7 Argillite/siltstone with dolomitic siltstone/wacke lenses
8 Interbedded clastics
9 Andesite dyke
10 Non-calcareous siltstone/greywacke
11 Pebbly greywacke/tuff
12 Argillite
13 Shale with interbedded siltstone
14 Pillow Basalt
UPPER TRIASSIC
Stuhini Group
uTBS Basalt and andesite
1 Basalt
3 Feldspar crystal lithic tuff
4 Amygdaloidal basalt
5 Massive andesite
6 Interbedded mafic tuff and argillaceous tuff
uTSE Sediments
1 Interbedded argillite and siltstone
2 Wacke
3 Conglomerate
4 Mafic siltstone wacke and black calcareous argillite
LOWER MISSISSIPPIAN
More Creek Plutonic Suite
MGR Granite
UPPER DEVONIAN AND MISSISSIPPIAN
Sitkine Assemblage
DMSV Sediments and volcanics
1 Massive fine-grained basalt
2 Medium-grained basalt
3 Dolomitic wacke and conglomerate
4 Chert
5 Argillite
6 Mafic tuff
7 Dacitic ash tuff
8 Maroon wacke/siltstone
9 Andesitic crystal lithic tuff
10 Pyroxene-phyric basaltic lithic tuff
11 Siltstone/wacke
RDN Surface Rocks
Au (ppb)
> 1,000 (ppb) (45)
50 to 1,000 (133)
< 50 (ppb) (1354)
RDN Soil Geochemistry
Au (ppb)
> 59 (ppb) (98th percentile) (210)
21 to 59 (95th percentile) (267)
7 to 21 (85th percentile) (852)
3 to 7 (70th percentile) (1254)
< 3 (ppb) all others (5589)
RDN Silt Geochemistry
Au (ppb)
> 30 (ppb) (98th percentile) (11)
14.8 to 30 (95th percentile) (7)
5 to 14.8 (85th percentile) (94)
< 5 (ppb) all others (278)
MODIFIERS
/ interbedded
ag agglomerate
ar argillaceous
at ash tuff
bd bedded
bl black
br brown
bx breccia
ca calcareous
cg coarse-grained
cn crenulated
col columnar
cr carbonaceous
ct cherty
dk dark
fb flow-banded
fg fine-grained
fl fissile
fo foliated
fs fossiliferous
gr green
gs gossan
gy grey
hf hornfels
la laminated
li lithic tuff
lt lapilli tuff
ma maroon
md medium
mg medium-grained
mx massive
ph phyllitic
pk poikilitic
pp porphyritic
pw pillowed
qe quartz eye
qz quartz
sh sheared
si siliceous
sk skarn
ss slickensides
stk stockwork
tf tuff
vn vein
xt crystal tuff
MINERAL AND ALTERATION ABBREVIATIONS
AK ankerite
AS arsenopyrite
AZ azurite
BA barite
BI biotite
BX breccia
CA calcite
CD chalcedony
CB Fe-carbonate
CL chlorite
CP chalcopyrite
CY clay
DI diopside
EP epidote
FP feldspars
GC glauconite
GE goethite
GL galena
HB hornblende
HE hematite
HF hornfels
HZ hydrozincite
JA jarosite
KF K-spar
MC malachite
MG magnetite
MN manganese
MO molybdenite
MS sericite
MT marcasite
MU muscovite
PA pyrargyrite
PO pyrrhotite
PX pyroxene
PY Pyrite
QV quartz vein
QZ quartz
SI silica
SP sphalerite
SR scorodite
SS Sulphosalts
TT Tetrahedrite
LITHOLOGIES
ANDS Andesite
DACT Dacite
ARGL Argillite
CHRT Chert
CNGL Conglomerate
GRIT Grit
GRWK Greywacke
MDST Mudstone
SHAL Shale
SLTS Siltstone
SNDS Sandstone
MAFC Mafic Volcanic
TRAC Trachyte
BSLT Basalt
RHYL Rhyolite
DLMT Dolomite
DIOR Diorite
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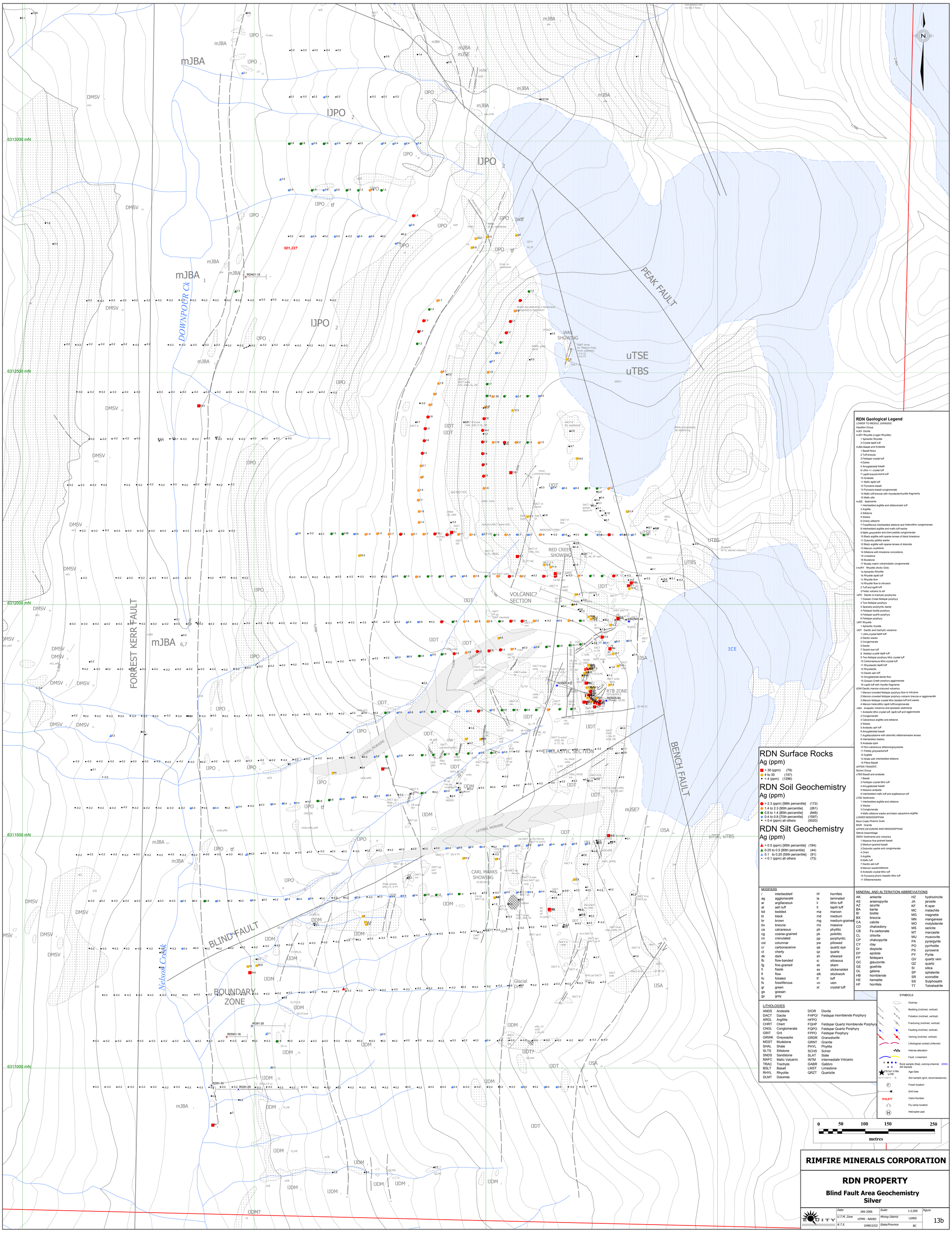
GRDR Granodiorite
GRNT Granite
PHYL Phyllite
SCHS Schist
SLAT Slate
INTM Intermediate Volcanic
GABR Gabbro
LMST Limestone
QRZT Quartzite
SYMBOLS
Outcrop
Bedding (inclined, vertical)
Foliation (inclined, vertical)
Fracturing (inclined, vertical)
Faulting (inclined, vertical)
Veining (inclined, vertical)
Lithological contact (inferred)
Intense alteration
Fault, Lineament
Rock sample (float, outcrop,channel Silt Sample 2005)
Age Date
Soil sample (grid, reconnaissance)
Fossil location
Drill hole
Claim Number
Fly camp location
Helicopter pad
0 50 100 150 250
metres
PEAK FAULT
BENCH FAULT
FORREST KERR FAULT
BLIND FAULT
DOWNPOUR Ck
Nelson Creek
VOLCANIC? SECTION
RED CREEK SHOWING
WAS SHOWING
CARL MARKS SHOWING
RTB ZONE
BOUNDARY ZONE
EPICLASTIC SECTION
LATERAL MORAINE
MORAINE
Glacial Drift
ICE
6313000 mN
6312500 mN
6312000 mN
6311500 mN
6311000 mN
501,227
RDN01-15
RDN05-42
RDN05-41
RDN05-40
RDN01-16
RG91-25
RG91-30
RG91-29
RIMFIRE MINERALS CORPORATION
RDN PROPERTY
Blind Fault Area Geochemistry
Gold
Date: JAN 2006
Scale: 1:2,500
Figure 13a
U.T.M. Zone UTM9 - NAD83
Mining District LIARD
N.T.S. 104B15/G2
State/Province BC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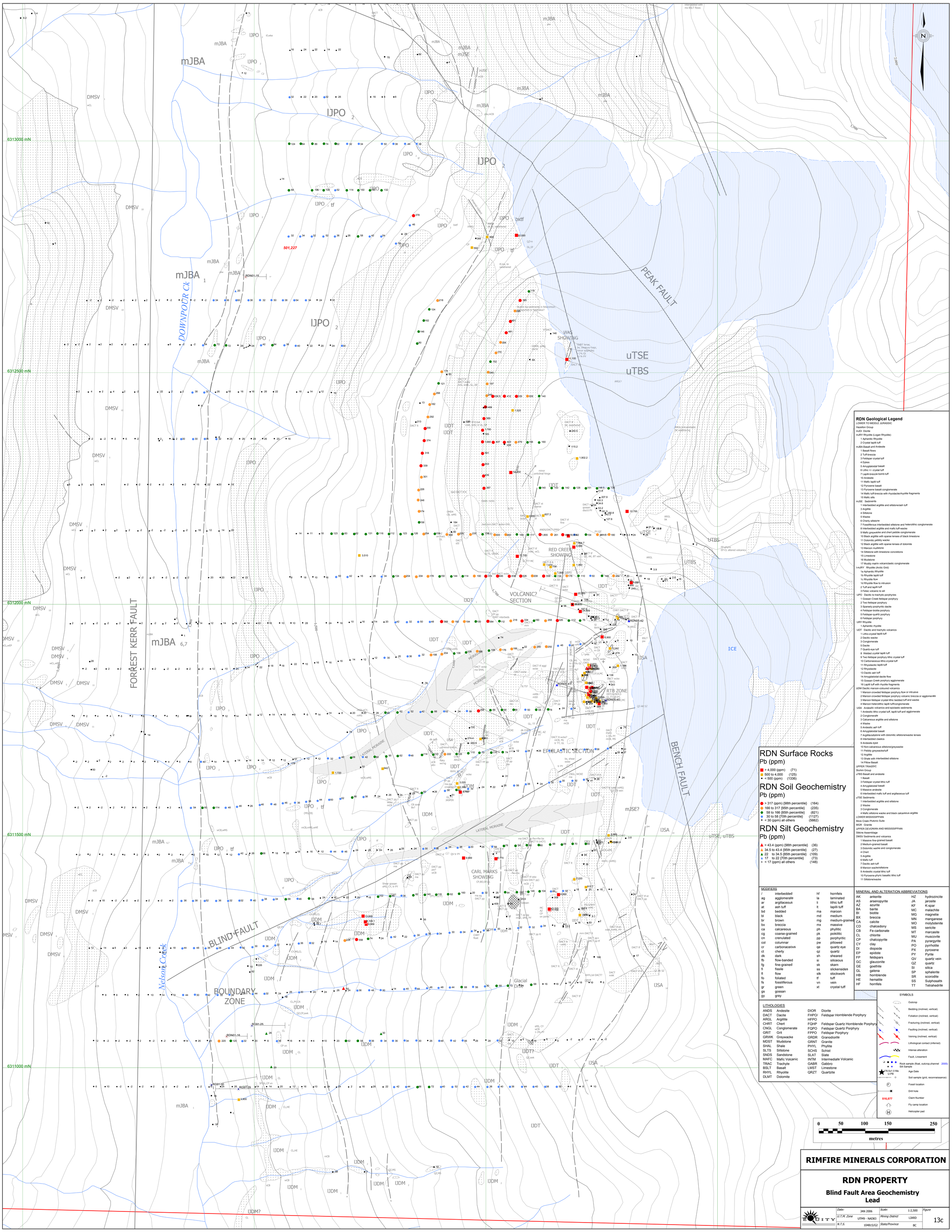
17 Muddy matrix volcaniclastic conglomerate
l-mJRY Rhyolite (Arctic Grid)
1a Aphanitic Rhyolite
1b Rhyolite lapilli tuff
1c Rhyolite flow
1d Rhyolite flow to intrusion
2 Tuff and lapilli tuff
3 Felsic volcanic to sill
lJPO Dacitic to trachytic porphyries
1 Gossan Creek feldspar porphyry
2 Two feldspar porphyry
3 Sparsely porphyritic dacite
4 Feldspar-biotite porphyry
5 Feldspar-quartz porphyry
6 Feldspar porphyry
lJRY Rhyolite
1 Aphanitic rhyolite
lJDT Dacitic and trachytic volcanics
1 Lithic-crystal lapilli tuff
2 Dacitic wacke
3 Conglomerate
5 Dacite
7 Quartz-eye tuff
8 Welded crystal lapilli tuff
9 Two feldspar porphyry lithic crystal tuff
10 Carbonaceous lithic-crystal tuff
11 Rhyodacitic lapilli tuff
12 Rhyodacite
13 Dacitic ash tuff
14 Amygdaloidal dacite flow
15 Gossan Creek porphyry agglomerate
16 Lapilli tuff with rhyolite fragments
lJDM Dacitic maroon-coloured volcanics
1 Maroon crowded feldspar porphyry flow or intrusive
2 Maroon crowded feldspar porphyry volcanic breccia or agglomerate
3 Maroon feldspar crystal lithic bedded tuff and wacke
4 Maroon heterolithic lapilli tuff/conglomerate
lJSA Andesitic volcanics and epiclastic sediments
1 Andesitic lithic crystal tuff, lapilli tuff and agglomerate
2 Conglomerate
3 Calcareous argillite and siltstone
4 Wacke
5 Andesitic ash tuff
6 Amygdaloidal basalt
7 Argillite/siltstone with dolomitic siltstone/wacke lenses
8 Interbedded clastics
9 Andesite dyke
10 Non-calcareous siltstone/greywacke
11 Pebbly greywacke/tuff
12 Argillite
13 Shale with interbedded siltstone
14 Pillow Basalt
UPPER TRIASSIC
Sluhini Group
uTBS Basalt and andesite
1 Basalt
3 Feldspar crystal lithic tuff
4 Amygdaloidal basalt
5 Massive andesite
6 Interbedded mafic tuff and argillaceous tuff
uTSE Sediments
1 Interbedded argillite and siltstone
2 Wacke
3 Conglomerate
4 Mafic siltstone wacke and black calcareous argillite
LOWER MISSISSIPPIAN
More Creek Plutonic Suite
MGR Granite
UPPER DEVONIAN AND MISSISSIPPIAN
Stikine Assemblage
DMSV Sediments and volcanics
1 Massive fine-grained basalt
2 Medium-grained basalt
3 Dolomitic wacke and conglomerate
4 Chert
5 Argillite
6 Mafic tuff
7 Dacitic ash tuff
8 Maroon wacke/siltstone
9 Andesitic crystal lithic tuff
10 Pyroxene-phyric basaltic lithic tuff
11 Siltstone/wacke
RDN Surface Rocks
Ag (ppm)
> 30 (ppm) (79)
4 to 30 (157)
< 4 (ppm) (1296)
RDN Soil Geochemistry
Ag (ppm)
> 2.3 (ppm) (98th percentile) (172)
1.4 to 2.3 (95th percentile) (261)
0.8 to 1.4 (85th percentile) (848)
0.4 to 0.8 (70th percentile) (1597)
< 0.4 (ppm) all others (5020)
RDN Silt Geochemistry
Ag (ppm)
> 0.5 (ppm) (95th percentile) (184)
0.25 to 0.5 (80th percentile) (44)
0.1 to 0.25 (55th percentile) (91)
< 0.1 (ppm) all others (73)
MODIFIERS
/ interbedded
ag agglomerate
ar argillaceous
at ash tuff
bd bedded
bl black
br brown
bx breccia
ca calcareous
cg coarse-grained
cn crenulated
col columnar
cr carbonaceous
ct cherty
dk dark
fb flow-banded
fg fine-grained
fl fissile
fo foliated
fs fossiliferous
gr green
gs gossan
gy grey
hf hornfels
la laminated
li lithic tuff
lt lapilli tuff
ma maroon
md medium
mg medium-grained
mx massive
ph phyllitic
pk poikilitic
pp porphyritic
pw pillowed
qe quartz eye
qz quartz
sh sheared
si siliceous
sk skarn
ss slickensides
stk stockwork
tf tuff
vn vein
xt crystal tuff
MINERAL AND ALTERATION ABBREVIATIONS
AK ankerite
AS arsenopyrite
AZ azurite
BA barite
BI biotite
BX breccia
CA calcite
CD chalcedony
CB Fe-carbonate
CL chlorite
CP chalcopyrite
CY clay
DI diopside
EP epidote
FP feldspars
GC glauconite
GE goethite
GL galena
HB hornblende
HE hematite
HF hornfels
HZ hydrozincite
JA jarosite
KF K-spar
MC malachite
MG magnetite
MN manganese
MO molybdenite
MS sericite
MT marcasite
MU muscovite
PA pyrargyrite
PO pyrrhotite
PX pyroxene
PY Pyrite
QV quartz vein
QZ quartz
SI silica
SP sphalerite
SR scorodite
SS Sulphosalts
TT Tetrahedrite
LITHOLOGIES
ANDS Andesite
DACT Dacite
ARGL Argillite
CHRT Chert
CNGL Conglomerate
GRIT Grit
GRWK Greywacke
MDST Mudstone
SHAL Shale
SLTS Siltstone
SNDS Sandstone
MAFC Mafic Volcanic
TRAC Trachyte
BSLT Basalt
RHYL Rhyolite
DLMT Dolomite
DIOR Diorite
FHPO/HFPO Feldspar Hornblende Porphyry
FQHP Feldspar Quartz Hornblende Porphyry
FQPO Feldspar Quartz Porphyry
FPPO Feldspar Porphyry
GRDR Granodiorite
GRNT Granite
PHYL Phyllite
SCHS Schist
SLAT Slate
INTM Intermediate Volcanic
GABR Gabbro
LMST Limestone
QRZT Quartzite
SYMBOLS
Outcrop
Bedding (inclined, vertical)
Foliation (inclined, vertical)
Fracturing (inclined, vertical)
Faulting (inclined, vertical)
Veining (inclined, vertical)
Lithological contact (inferred)
Intense alteration
Fault, Lineament
Rock sample (float, outcrop,channel 2005)
Silt Sample
Age Date
Soil sample (grid, reconnaissance)
Fossil location
Drill hole
Claim Number
Fly camp location
Helicopter pad
0 50 100 150 250
metres
RIMFIRE MINERALS CORPORATION
RDN PROPERTY
Blind Fault Area Geochemistry
Silver
Date: JAN 2006
Scale: 1:2,500
Figure 13b
U.T.M. Zone UTM9 - NAD83
Mining District LIARD
N.T.S. 104B15/G2
State/Province BC
PEAK FAULT
BENCH FAULT
FORREST KERR FAULT
BLIND FAULT
BOUNDARY ZONE
DOWNPOUR Ck
Nelson Creek
VOLCANIC? SECTION
RED CREEK SHOWING
CARL MARKS SHOWING
RTB ZONE
WAS SHOWING
EPICLASTIC SECTION
LATERAL MORAINE
MORAINE
ICE
Glacial Drift
6313000 mN
6312500 mN
6312000 mN
6311500 mN
6311000 mN



RDN Geological Legend

LOWER TO MIDDLE JURASSIC
Hazelton Group
mJDI Diorite
mJRY Rhyolite (Logan Rhyolite)
1 Aphanitic Rhyolite
2 Crystal lapilli tuff
mJBA Basalt and Andesite
1 Basalt flows
2 Tuff-breccia
3 Feldspar crystal tuff
4 Dykes
5 Amygdaloidal basalt
6 Lithic +/- crystal tuff
7 Lapilli-breccia bomb tuff
10 Andesite
11 Mafic lapilli tuff
12 Pyroxene basalt
13 Pyroxene basalt conglomerate
14 Mafic tuff-breccia with rhyodacite/rhyolite fragments
15 Mafic sills
mJSE Sediments
1 Interbedded argillite and siltstone/ash tuff
3 Argillite
4 Siltstone
5 Wacke
6 Cherty siltstone
7 Fossiliferous interbedded siltstone and heterolithic conglomerate
8 Interbedded argillite and mafic tuff-wacke
9 Mafic greywacke and chert pebble conglomerate
10 Black argillite with sparse lenses of black limestone
11 Dolomitic pebbly wacke
12 Black argillite with sparse lenses of dolomite
13 Maroon mudstone
14 Siltstone with limestone concretions
15 Limestone
16 Mudstone
17 Muddy matrix volcaniclastic conglomerate
l-mJRY Rhyolite (Arctic Gird)
1a Aphanitic Rhyolite
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1d Rhyolite flow to intrusion
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1 Gossan Creek feldspar porphyry
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4 Feldspar-biotite porphyry
5 Feldspar-quartz porphyry
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3 Conglomerate
5 Dacite
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8 Welded crystal lapilli tuff
9 Two feldspar porphyry lithic crystal tuff
10 Carbonaceous lithic-crystal tuff
11 Rhyodacitic lapilli tuff
12 Rhyodacite
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15 Gossan Creek porphyry agglomerate
16 Lapilli tuff with rhyolite fragments
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1 Maroon crowded feldspar porphyry flow or intrusive
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8 Interbedded clastics
9 Andesite dyke
10 Non-calcareous siltstone/greywacke
11 Pebbly greywacke/tuff
12 Argillite
13 Shale with interbedded siltstone
14 Pillow Basalt
UPPER TRIASSIC
Stuhini Group
uTBS Basalt and andesite
1 Basalt
3 Feldspar crystal lithic tuff
4 Amygdaloidal basalt
5 Massive andesite
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1 Interbedded argillite and siltstone
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4 Mafic siltstone wacke and black calcareous argillite
LOWER MISSISSIPPIAN
More Creek Plutonic Suite
MGR Granite
UPPER DEVONIAN AND MISSISSIPPIAN
Stikine Assemblage
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1 Massive fine-grained basalt
2 Medium-grained basalt
3 Dolomitic wacke and conglomerate
4 Chert
5 Argillite
6 Mafic tuff
7 Dacitic ash tuff
8 Maroon wacke/siltstone
9 Andesitic crystal lithic tuff
10 Pyroxene-phyric basaltic lithic tuff
11 Siltstone/wacke

RDN Surface Rocks
Pb (ppm)

- > 4,000 (ppm) (71)
- 500 to 4,000 (125)
- < 500 (ppm) (1336)

RDN Soil Geochemistry
Pb (ppm)

- > 317 (ppm) (98th percentile) (164)
- 166 to 317 (95th percentile) (235)
- 58 to 166 (85th percentile) (821)
- 30 to 58 (70th percentile) (1127)
- < 30 (ppm) all others (5662)

RDN Silt Geochemistry
Pb (ppm)

- > 43.4 (ppm) (98th percentile) (36)
- 34.5 to 43.4 (95th percentile) (27)
- 22 to 34.5 (85th percentile) (109)
- 17 to 22 (70th percentile) (73)
- < 17 (ppm) all others (148)

MODIFIERS

/	interbedded	hf	hornfels
ag	agglomerate	la	laminated
ar	argillaceous	li	lithic tuff
at	ash tuff	lt	lapilli tuff
bd	bedded	ma	maroon
bl	black	md	medium
br	brown	mg	medium-grained
bx	breccia	mx	massive
ca	calcareous	ph	phyllitic
cg	coarse-grained	pk	poikilitic
cn	crenulated	pp	porphyritic
col	columnar	pw	pillowed
cr	carbonaceous	qe	quartz eye
ct	cherty	qz	quartz
dk	dark	sh	sheared
fb	flow-banded	si	siliceous
fg	fine-grained	sk	skarn
fi	fissile	ss	slickensides
fl	flow	stk	stockwork
fo	foliated	tf	tuff
fs	fossiliferous	vn	vein
gr	green	xt	crystal tuff
gs	gossan		
gy	grey		

MINERAL AND ALTERATION ABBREVIATIONS

AK	ankerite	HZ	hydrozincite
AS	arsenopyrite	JA	jarosite
AZ	azurite	KF	K-spar
BA	barite	MC	malachite
BI	biotite	MG	magnetie
BX	breccia	MN	manganese
CA	calcite	MO	molybdenite
CD	chalcedony	MS	sericite
CB	Fe-carbonate	MT	marcasite
CL	chlorite	MU	muscovite
CP	chalcopyrite	PA	pyrargyrite
CY	clay	PO	pyrrhotite
DI	diopside	PX	pyroxene
EP	epidote	PY	Pyrite
FP	feldspars	QV	quartz vein
GC	glauconite	QZ	quartz
GE	goethite	SI	silica
GL	galena	SP	sphalerite
HB	hornblende	SR	scorodite
HE	hematite	SS	Sulphosalts
HF	hornfels	TT	Tetrahedrite

LITHOLOGIES

ANDS	Andesite	DIOR	Diorite
DACT	Dacite	FHPO/ HFPO	Feldspar Hornblende Porphyry
ARGL	Argillite	FQHP	Feldspar Quartz Hornblende Porphyry
CHRT	Chert	FQPO	Feldspar Quartz Porphyry
CNGL	Conglomerate	FPPO	Feldspar Porphyry
GRIT	Grit	GRDR	Granodiorite
GRWK	Greywacke	GRNT	Granite
MDST	Mudstone	PHYL	Phyllite
SHAL	Shale	SCHS	Schist
SLTS	Siltstone	SLAT	Slate
SNDS	Sandstone	INTM	Intermediate Volcanic
MAFC	Mafic Volcanic	GABR	Gabbro
TRAC	Trachyte	LMST	Limestone
BSLT	Basalt	QRZT	Quartzite
RHYL	Rhyolite		
DLMT	Dolomite		

SYMBOLS

- Outcrop
- Bedding (inclined, vertical)
- Foliation (inclined, vertical)
- Fracturing (inclined, vertical)
- Faulting (inclined, vertical)
- Veining (inclined, vertical)
- Lithological contact (inferred)
- Intense alteration
- Fault, Lineament
- Rock sample (float, outcrop,channel Silt Sample) 2005
- 176.5±1.0 Ma U-Pb — Age Date
- Soil sample (grid, reconnaissance)
- Fossil location
- Drill hole
- 516,877 — Claim Number
- Fly camp location
- Helicopter pad

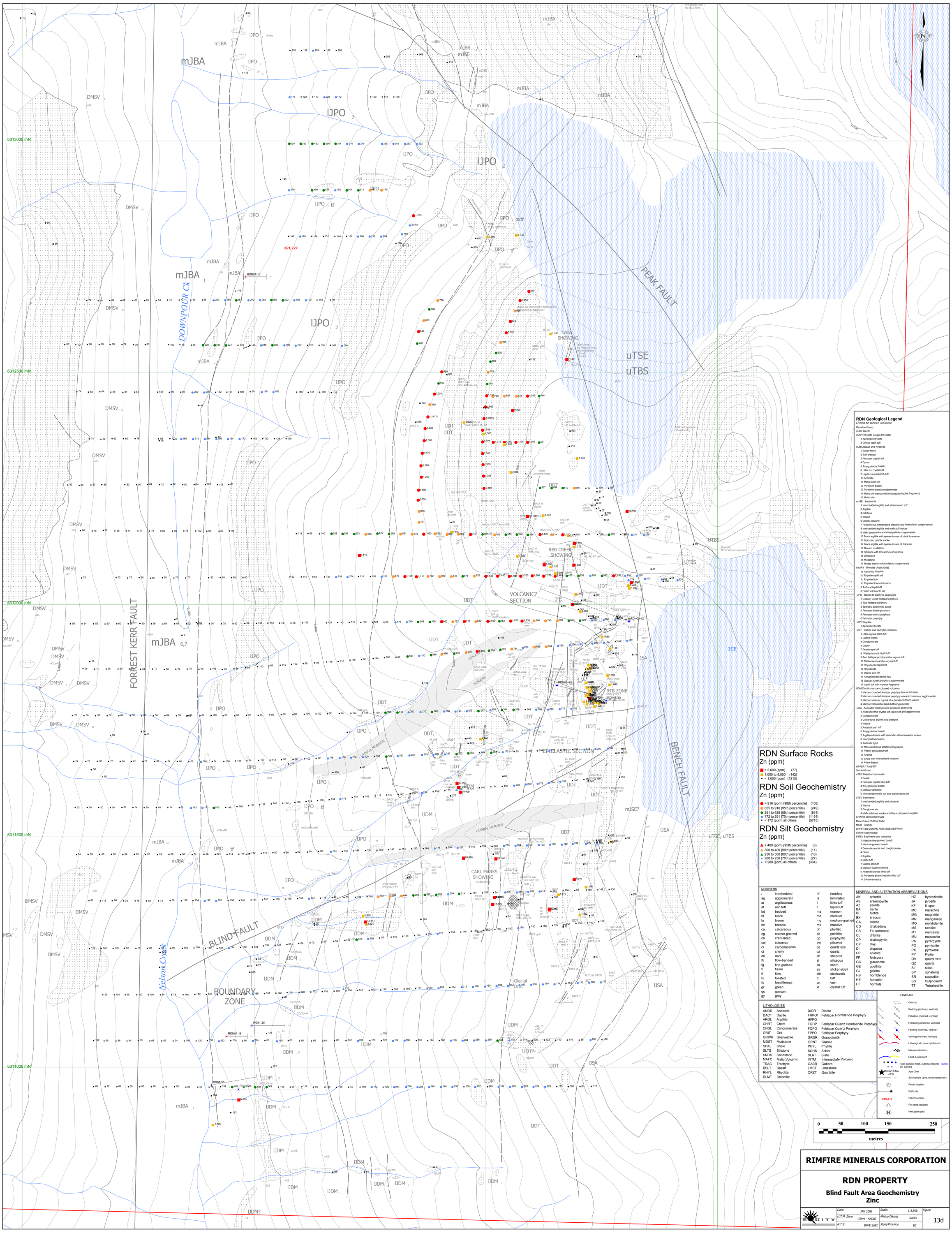
0 50 100 150 250
metres

RIMFIRE MINERALS CORPORATION

RDN PROPERTY

Blind Fault Area Geochemistry
Lead

Date:	JAN 2006	Scale:	1:2,500	Figure
U.T.M. Zone	UTM9 - NAD83	Mining District	LIARD	13c
N.T.S.	104B15/G2	State/Province	BC	


RDN Geological Legend
LOWER TO MIDDLE JURASSIC
Hazelton Group
mJDI Diorite
mJRY Rhyolite (Logan Rhyolite)
1 Aphanitic Rhyolite
2 Crystal lapilli tuff
mJBA Basalt and Andesite
1 Basalt flows
2 Tuff-breccia
3 Feldspar crystal tuff
4 Dykes
5 Amygdaloidal basalt
6 Lithic +/- crystal tuff
7 Lapilli-breccia bomb tuff
10 Andesite
11 Mafic lapilli tuff
12 Pyroxene basalt
13 Pyroxene basalt conglomerate
14 Mafic tuff-breccia with rhyodacite/rhyolite fragments
15 Mafic sills
mJSE Sediments
1 Interbedded argillite and siltstone/ash tuff
3 Argillite
4 Siltstone
5 Wacke
6 Cherty siltstone
7 Fossiliferous interbedded siltstone and heterolithic conglomerate
8 Interbedded argillite and mafic tuff-wacke
9 Mafic greywacke and chert pebble conglomerate
10 Black argillite with sparse lenses of black limestone
11 Dolomitic pebbly wacke
12 Black argillite with sparse lenses of dolomite
13 Maroon mudstone
14 Siltstone with limestone concretions
15 Limestone
16 Mudstone
17 Muddy matrix volcaniclastic conglomerate
l-mJRY Rhyolite (Arctic Gird)
1a Aphanitic Rhyolite
1b Rhyolite lapilli tuff
1c Rhyolite flow
1d Rhyolite flow to intrusion
2 Tuff and lapilli tuff
3 Felsic volcanic to sill
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1 Gossan Creek feldspar porphyry
2 Two feldspar porphyry
3 Sparsely porphyritic dacite
4 Feldspar-biotite porphyry
5 Feldspar-quartz porphyry
6 Feldspar porphyry
lJRY Rhyolite
1 Aphanitic rhyolite
lJDT Dacitic and trachytic volcanics
1 Lithic-crystal lapilli tuff
2 Dacitic wacke
3 Conglomerate
5 Dacite
7 Quartz-eye tuff
8 Welded crystal lapilli tuff
9 Two feldspar porphyry lithic crystal tuff
10 Carbonaceous lithic-crystal tuff
11 Rhyodacitic lapilli tuff
12 Rhyodacite
13 Dacitic ash tuff
14 Amygdaloidal dacite flow
15 Gossan Creek porphyry agglomerate
16 Lapilli tuff with rhyolite fragments
lJDM Dacitic maroon-coloured volcanics
1 Maroon crowded feldspar porphyry flow or intrusive
2 Maroon crowded feldspar porphyry volcanic breccia or agglomerate
3 Maroon feldspar crystal lithic bedded tuff and wacke
4 Maroon heterolithic lapilli tuff/conglomerate
lJSA Andesitic volcanics and epiclastic sediments
1 Andesitic lithic crystal tuff, lapilli tuff and agglomerate
2 Conglomerate
3 Calcareous argillite and siltstone
4 Wacke
5 Andesitic ash tuff
6 Amygdaloidal basalt
7 Argillite/siltstone with dolomitic siltstone/wacke lenses
8 Interbedded clastics
9 Andesite dyke
10 Non-calcareous siltstone/greywacke
11 Pebbly greywacke/tuff
12 Argillite
13 Shale with interbedded siltstone
14 Pillow Basalt
UPPER TRIASSIC
Stuhini Group
uTBS Basalt and andesite
1 Basalt
3 Feldspar crystal lithic tuff
4 Amygdaloidal basalt
5 Massive andesite
6 Interbedded mafic tuff and argillaceous tuff
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1 Interbedded argillite and siltstone
2 Wacke
3 Conglomerate
4 Mafic siltstone wacke and black calcareous argillite
LOWER MISSISSIPPIAN
More Creek Plutonic Suite
MGR Granite
UPPER DEVONIAN AND MISSISSIPPIAN
Sikine Assemblage
DMSV Sediments and volcanics
1 Massive fine-grained basalt
2 Medium-grained basalt
3 Dolomitic wacke and conglomerate
4 Chert
5 Argillite
6 Mafic tuff
7 Dacitic ash tuff
8 Maroon wacke/siltstone
9 Andesitic crystal lithic tuff
10 Pyroxene-phyric basaltic lithic tuff
11 Siltstone/wacke
RDN Surface Rocks
Zn (ppm)
> 5,000 (ppm) (77)
1,000 to 5,000 (142)
< 1,000 (ppm) (1313)
RDN Soil Geochemistry
Zn (ppm)
> 916 (ppm) (98th percentile) (168)
625 to 916 (95th percentile) (249)
291 to 625 (85th percentile) (831)
172 to 291 (70th percentile) (1191)
< 172 (ppm) all others (5715)
RDN Silt Geochemistry
Zn (ppm)
> 400 (ppm) (95th percentile) (8)
300 to 400 (90th percentile) (11)
250 to 300 (80th percentile) (16)
200 to 250 (70th percentile) (27)
< 200 (ppm) all others (334)
MODIFIERS
/ interbedded
ag agglomerate
ar argillaceous
at ash tuff
bd bedded
bl black
br brown
bx breccia
ca calcareous
cg coarse-grained
cn crenulated
col columnar
cr carbonaceous
ct cherty
dk dark
fb flow-banded
fg fine-grained
fi fissile
fl flow
fo foliated
fs fossiliferous
gr green
gs gossan
gy grey
hf hornfels
la laminated
li lithic tuff
lt lapilli tuff
ma maroon
md medium
mg medium-grained
mx massive
ph phyllitic
pk poikilitic
pp porphyritic
pw pillowed
qe quartz eye
qz quartz
sh sheared
si siliceous
sk skarn
ss slickensides
stk stockwork
tf tuff
vn vein
xt crystal tuff
MINERAL AND ALTERATION ABBREVIATIONS
AK ankerite
AS arsenopyrite
AZ azurite
BA barite
BI biotite
BX breccia
CA calcite
CD chalcedony
CB Fe-carbonate
CL chlorite
CP chalcopyrite
CY clay
DI diopside
EP epidote
FP feldspars
GC glauconite
GE goethite
GL galena
HB hornblende
HE hematite
HF hornfels
HZ hydrozincite
JA jarosite
KF K-spar
MC malachite
MG magnetie
MN manganese
MO molybdenite
MS sericite
MT marcasite
MU muscovite
PA pyrargyrite
PO pyrrhotite
PX pyroxene
PY Pyrite
QV quartz vein
QZ quartz
SI silica
SP sphalerite
SR scorodite
SS Sulphosalts
TT Tetrahedrite
LITHOLOGIES
ANDS Andesite
DACT Dacite
ARGL Argillite
CHRT Chert
CNGL Conglomerate
GRIT Grit
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MDST Mudstone
SHAL Shale
SLTS Siltstone
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Faulting (inclined, vertical)
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Age Date
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Claim Number
Fly camp location
Helicopter pad
0 50 100 150 250
metres
RIMFIRE MINERALS CORPORATION
RDN PROPERTY
Blind Fault Area Geochemistry
Zinc
Date: JAN 2006
Scale: 1:2,500
Figure 13d
U.T.M. Zone UTM9 - NAD83
Mining District LIARD
N.T.S. 104B15/G2
State/Province BC
PEAK FAULT
BENCH FAULT
FORREST KERR FAULT
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RED CREEK SHOWING
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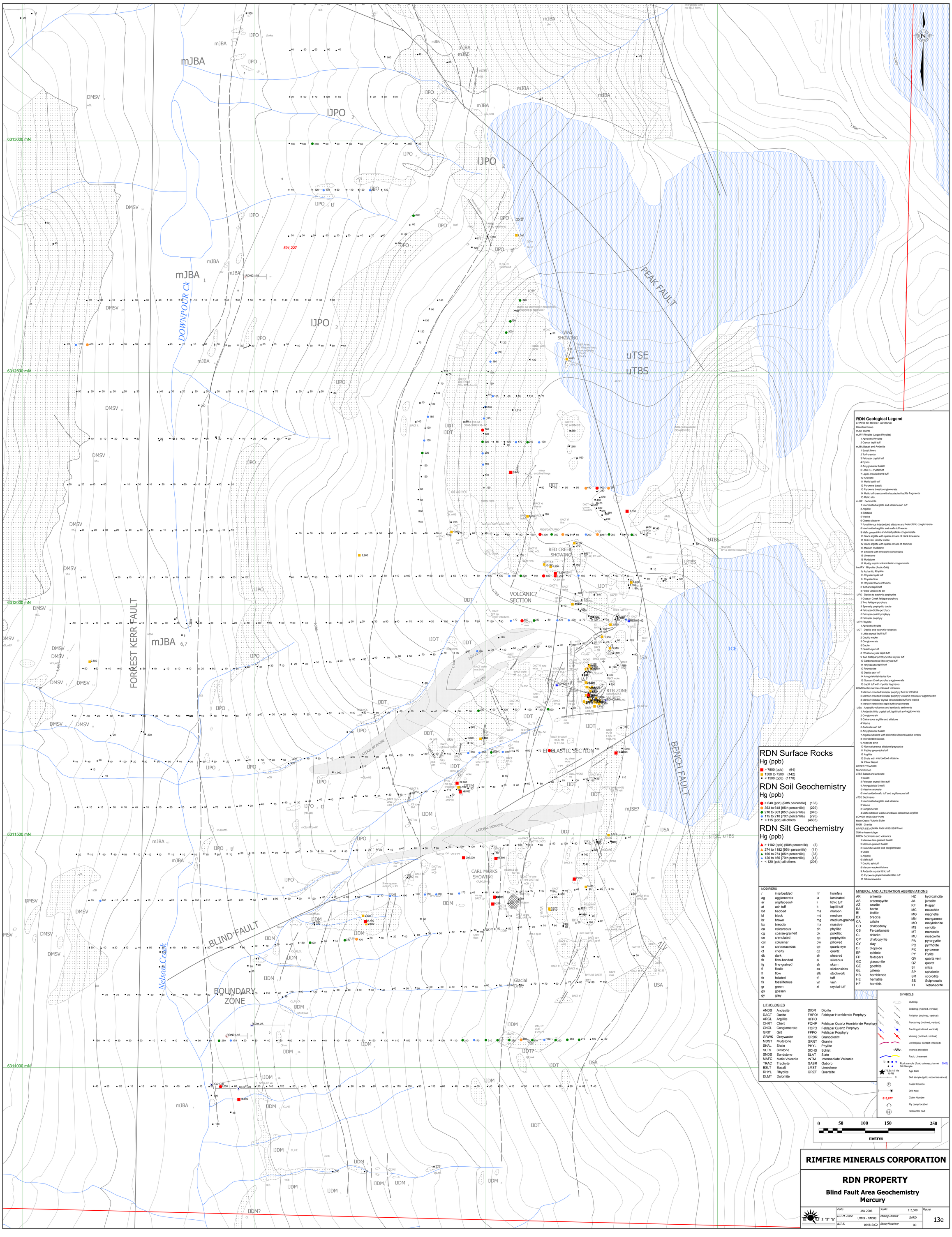
RTB ZONE
CARL MARKS SHOWING
BOUNDARY ZONE
EPICLASTIC SECTION
LATERAL MORAINE
MORAINE
Glacial Drift
ICE
501,227
6313000 mN
6312500 mN
6312000 mN
6311500 mN
6311000 mN



RDN Geological Legend

LOWER TO MIDDLE JURASSIC
Hazelton Group
mJDI Diorite
mJRY Rhyolite (Logan Rhyolite)
1 Aphanitic Rhyolite
2 Crystal lapilli tuff
mJBA Basalt and Andesite
1 Basalt flows
2 Tuff-breccia
3 Feldspar crystal tuff
4 Dykes
5 Amygdaloidal basalt
6 Lithic +/- crystal tuff
7 Lapilli-breccia bomb tuff
10 Andesite
11 Mafic lapilli tuff
12 Pyroxene basalt
13 Pyroxene basalt conglomerate
14 Mafic tuff-breccia with rhyodacite/rhyolite fragments
15 Mafic sills
mJSE Sediments
1 Interbedded argillite and siltstone/ash tuff
3 Argillite
4 Siltstone
5 Wacke
6 Cherty siltstone
7 Fossiliferous interbedded siltstone and heterolithic conglomerate
8 Interbedded argillite and mafic tuff-wacke
9 Mafic greywacke and chert pebble conglomerate
10 Black argillite with sparse lenses of black limestone
11 Dolomitic pebbly wacke
12 Black argillite with sparse lenses of dolomite
13 Maroon mudstone
14 Siltstone with limestone concretions
15 Limestone
16 Mudstone
17 Muddy matrix volcaniclastic conglomerate
l-mJRY Rhyolite (Arctic Grid)
1a Aphanitic Rhyolite
1b Rhyolite lapilli tuff
1c Rhyolite flow
1d Rhyolite flow to intrusion
2 Tuff and lapilli tuff
3 Felsic volcanic to sill
lJPO Dacitic to trachytic porphyries
1 Gossan Creek feldspar porphyry
2 Two feldspar porphyry
3 Sparsely porphyritic dacite
4 Feldspar-biotite porphyry
5 Feldspar-quartz porphyry
6 Feldspar porphyry
lJRY Rhyolite
1 Aphanitic rhyolite
lJDT Dacitic and trachytic volcanics
1 Lithic-crystal lapilli tuff
2 Dacitic wacke
3 Conglomerate
5 Dacite
7 Quartz-eye tuff
8 Welded crystal lapilli tuff
9 Two feldspar porphyry lithic crystal tuff
10 Carbonaceous lithic-crystal tuff
11 Rhyodacitic lapilli tuff
12 Rhyodacite
13 Dacitic ash tuff
14 Amygdaloidal dacite flow
15 Gossan Creek porphyry agglomerate
16 Lapilli tuff with rhyolite fragments
lJDM Dacitic maroon-coloured volcanics
1 Maroon crowded feldspar porphyry flow or intrusive
2 Maroon crowded feldspar porphyry volcanic breccia or agglomerate
3 Maroon feldspar crystal lithic bedded tuff and wacke
4 Maroon heterolithic lapilli tuff/conglomerate
lJSA Andesitic volcanics and epiclastic sediments
1 Andesitic lithic crystal tuff, lapilli tuff and agglomerate
2 Conglomerate
3 Calcareous argillite and siltstone
4 Wacke
5 Andesitic ash tuff
6 Amygdaloidal basalt
7 Argillite/siltstone with dolomitic siltstone/wacke lenses
8 Interbedded clastics
9 Andesite dyke
10 Non-calcareous siltstone/greywacke
11 Pebbly greywacke/tuff
12 Argillite
13 Shale with interbedded siltstone
14 Pillow Basalt
UPPER TRIASSIC
Suhini Group
uTBS Basalt and andesite
1 Basalt
3 Feldspar crystal lithic tuff
4 Amygdaloidal basalt
5 Massive andesite
6 Interbedded mafic tuff and argillaceous tuff
uTSE Sediments
1 Interbedded argillite and siltstone
2 Wacke
3 Conglomerate
4 Mafic siltstone wacke and black calcareous argillite
LOWER MISSISSIPPIAN
More Creek Plutonic Suite
MGR Granite
UPPER DEVONIAN AND MISSISSIPPIAN
Stikine Assemblage
DMSV Sediments and volcanics
1 Massive fine-grained basalt
2 Medium-grained basalt
3 Dolomitic wacke and conglomerate
4 Chert
5 Argillite
6 Mafic tuff
7 Dacitic ash tuff
8 Maroon wacke/siltstone
9 Andesitic crystal lithic tuff
10 Pyroxene-phyric basaltic lithic tuff
11 Siltstone/wacke

RDN Surface Rocks
Hg (ppb)

- > 7500 (ppb) (64)
- 1500 to 7500 (142)
- < 1500 (ppb) (1170)

RDN Soil Geochemistry
Hg (ppb)

- > 648 (ppb) (98th percentile) (138)
- 363 to 648 (95th percentile) (229)
- 210 to 363 (85th percentile) (670)
- 115 to 210 (70th percentile) (720)
- < 115 (ppb) all others (4605)

RDN Silt Geochemistry
Hg (ppb)

- > 1182 (ppb) (98th percentile) (3)
- 274 to 1182 (95th percentile) (11)
- 166 to 274 (85th percentile) (38)
- 120 to 166 (70th percentile) (45)
- < 120 (ppb) all others (206)

MODIFIERS

/	interbedded	hf	hornfels
ag	agglomerate	la	laminated
ar	argillaceous	li	lithic tuff
at	ash tuff	lt	lapilli tuff
bd	bedded	ma	maroon
bl	black	md	medium
br	brown	mg	medium-grained
bx	breccia	mx	massive
ca	calcareous	ph	phyllitic
cg	coarse-grained	pk	poikilitic
cn	crenulated	pp	porphyritic
col	columnar	pw	pillowed
cr	carbonaceous	qe	quartz eye
ct	cherty	qz	quartz
dk	dark	sh	sheared
fb	flow-banded	si	siliceous
fg	fine-grained	sk	skarn
fi	fissile	ss	slickensides
fl	flow	stk	stockwork
fo	foliated	tf	tuff
fs	fossiliferous	vn	vein
gr	green	xt	crystal tuff
gs	gossan		
gy	grey		

MINERAL AND ALTERATION ABBREVIATIONS

AK	ankerite	HZ	hydrozincite
AS	arsenopyrite	JA	jarosite
AZ	azurite	KF	K-spar
BA	barite	MC	malachite
BI	biotite	MG	magnetie
BX	breccia	MN	manganese
CA	calcite	MO	molybdenite
CD	chalcedony	MS	sericite
CB	Fe-carbonate	MT	marcasite
CL	chlorite	MU	muscovite
CP	chalcopyrite	PA	pyrargyrite
CY	clay	PO	pyrrhotite
DI	diopside	PX	pyroxene
EP	epidote	PY	Pyrite
FP	feldspars	QV	quartz vein
GC	glauconite	QZ	quartz
GE	goethite	SI	silica
GL	galena	SP	sphalerite
HB	hornblende	SR	scorodite
HE	hematite	SS	Sulphosalts
HF	hornfels	TT	Tetrahedrite

LITHOLOGIES

ANDS	Andesite	DIOR	Diorite
DACT	Dacite	FHPO/ HFPO	Feldspar Hornblende Porphyry
ARGL	Argillite		
CHRT	Chert	FQHP	Feldspar Quartz Hornblende Porphyry
CNGL	Conglomerate	FQPO	Feldspar Quartz Porphyry
GRIT	Grit	FPPO	Feldspar Porphyry
GRWK	Greywacke	GRDR	Granodiorite
MDST	Mudstone	GRNT	Granite
SHAL	Shale	PHYL	Phyllite
SLTS	Siltstone	SCHS	Schist
SNDS	Sandstone	SLAT	Slate
MAFC	Mafic Volcanic	INTM	Intermediate Volcanic
TRAC	Trachyte	GABR	Gabbro
BSLT	Basalt	LMST	Limestone
RHYL	Rhyolite	QRZT	Quartzite
DLMT	Dolomite		

SYMBOLS

- Outcrop
- Bedding (inclined, vertical)
- Foliation (inclined, vertical)
- Fracturing (inclined, vertical)
- Faulting (inclined, vertical)
- Veining (inclined, vertical)
- Lithological contact (inferred)
- Intense alteration
- Fault, Lineament
- Rock sample (float, outcrop,channel 2005) Silt Sample
- 176.5±1.0 Ma U-Pb — Age Date
- Soil sample (grid, reconnaissance)
- Fossil location
- Drill hole
- 516,877 — Claim Number
- Fly camp location
- Helicopter pad

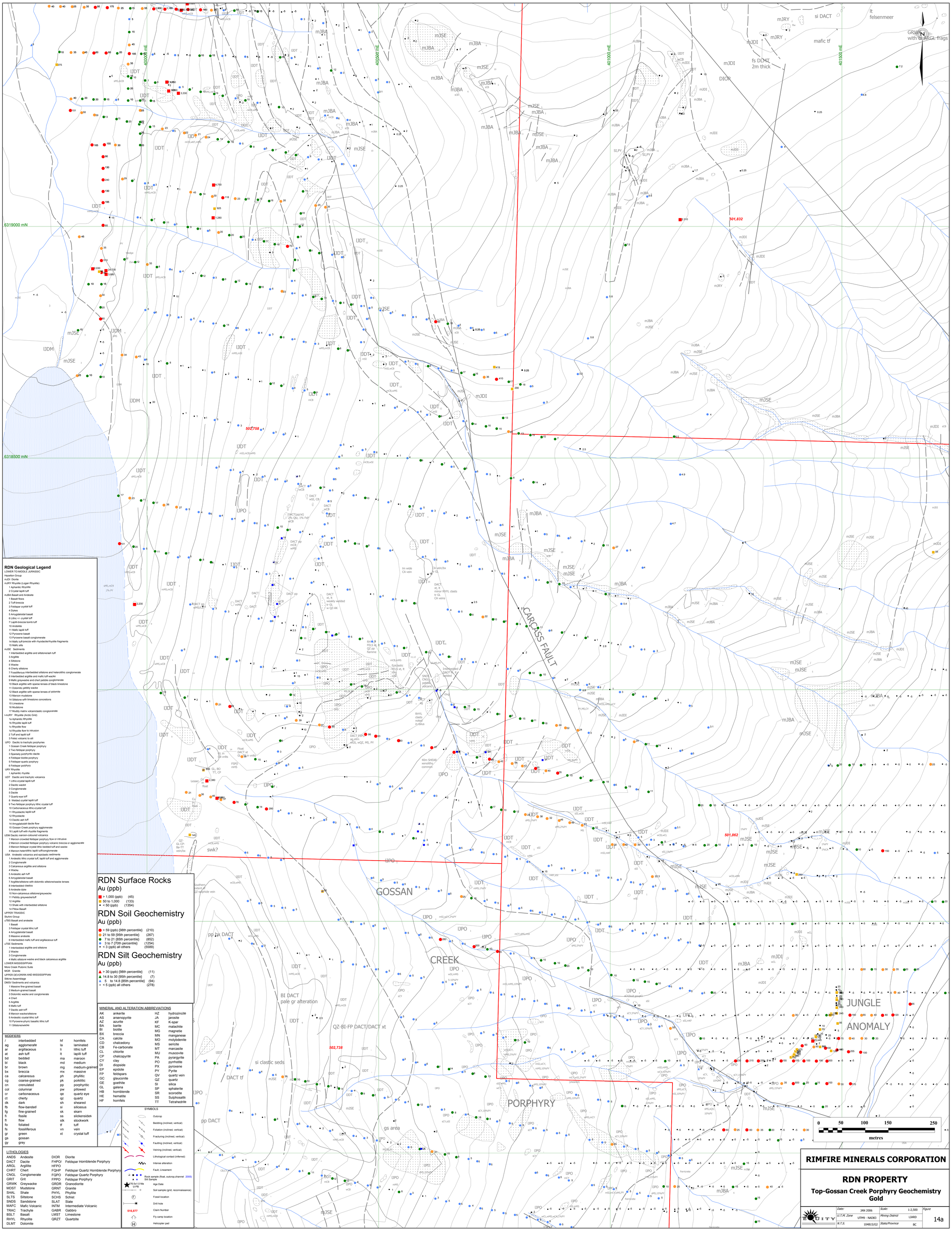
0 50 100 150 250
metres

RIMFIRE MINERALS CORPORATION

RDN PROPERTY

Blind Fault Area Geochemistry
Mercury

EQUITY	Date: JAN 2006	Scale: 1:2,500	Figure	
	U.T.M. Zone UTM9 - NAD83	Mining District LIARD	13e	
	N.T.S. 104B15/G2	State/Province BC		


400000 mE
400500 mE
401000 mE
401500 mE
6319000 mN
6318500 mN
CARCASS FAULT
GOSSAN
CREEK
PORPHYRY
JUNGLE
ANOMALY
si DACT
lt felsenmeer
mafic tf
fs DLMT 2m thick
DIOR
GRWK with U-PCGL frags
BI DACT pale gr alteration
QZ-BI-FP DACT/DACT xt
si clastic seds
DACT tf
pp DACT
gs area
swk?
40m SHEAR xenoliths common
RDN Geological Legend
LOWER TO MIDDLE JURASSIC
Hazelton Group
mJDI Diorite
mJRY Rhyolite (Logan Rhyolite)
1 Aphanitic Rhyolite
2 Crystal lapilli tuff
mJBA Basalt and Andesite
1 Basalt flows
2 Tuff-breccia
3 Feldspar crystal tuff
4 Dykes
5 Amygdaloidal basalt
6 Lithic +/- crystal tuff
7 Lapilli-breccia bomb tuff
10 Andesite
11 Mafic lapilli tuff
12 Pyroxene basalt
13 Pyroxene basalt conglomerate
14 Mafic tuff-breccia with rhyodacite/rhyolite fragments
15 Mafic silts
mJSE Sediments
1 Interbedded argillite and siltstone/ash tuff
3 Argillite
4 Siltstone
5 Wacke
6 Cherty siltstone
7 Fossiliferous interbedded siltstone and heterolithic conglomerate
8 Interbedded argillite and mafic tuff-wacke
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10 Black argillite with sparse lenses of black limestone
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12 Black argillite with sparse lenses of dolomite
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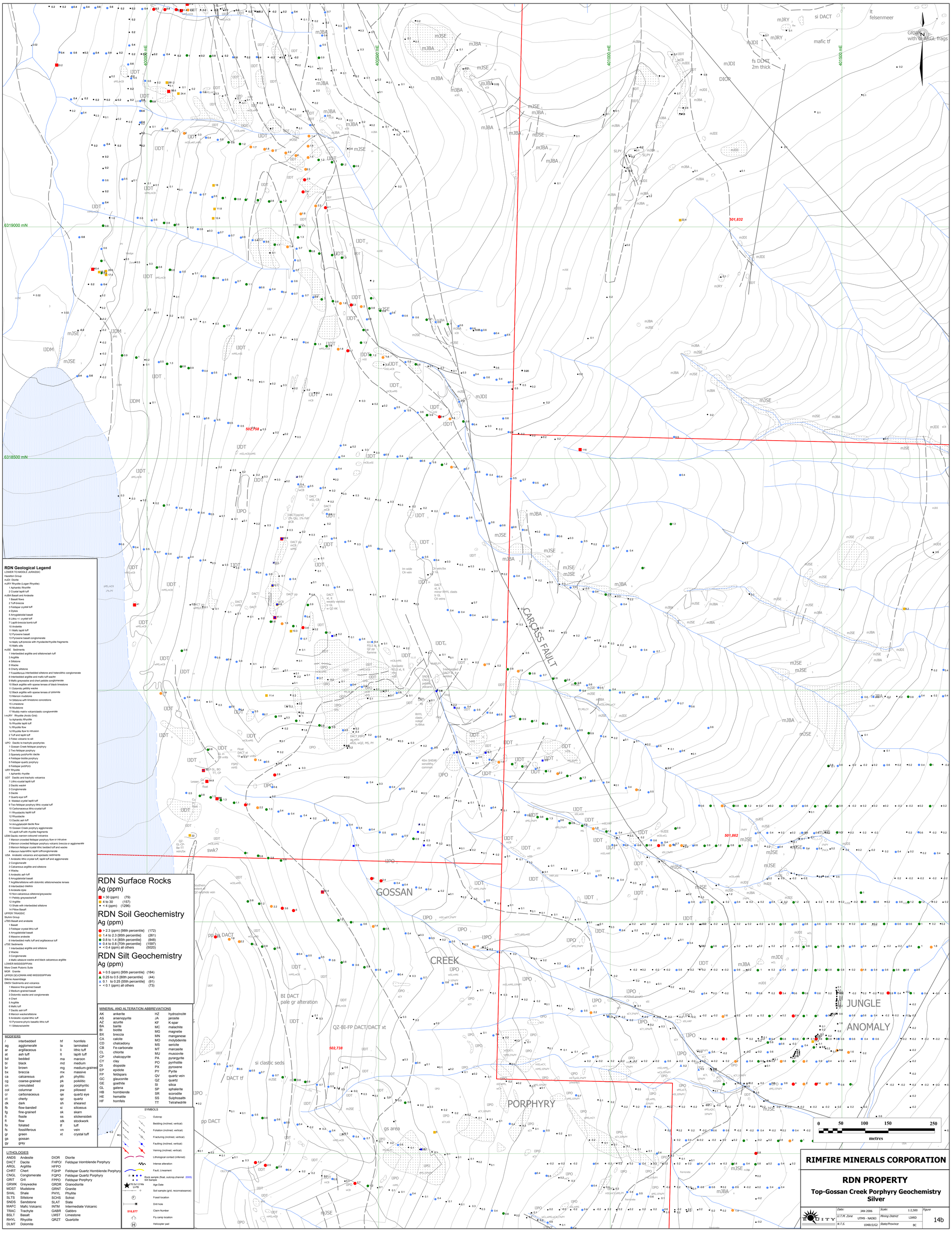
14 Siltstone with limestone concretions
15 Limestone
16 Mudstone
17 Muddy matrix volcaniclastic conglomerate
l-mJRY Rhyolite (Arctic Grid)
1a Aphanitic Rhyolite
1b Rhyolite lapilli tuff
1c Rhyolite flow
1d Rhyolite flow to intrusion
2 Tuff and lapilli tuff
3 Felsic volcanic to sill
lJPO Dacitic to trachytic porphyries
1 Gossan Creek feldspar porphyry
2 Two feldspar porphyry
3 Sparsely porphyritic dacite
4 Feldspar-biotite porphyry
5 Feldspar-quartz porphyry
6 Feldspar porphyry
lJRY Rhyolite
1 Aphanitic rhyolite
lJDT Dacitic and trachytic volcanics
1 Lithic-crystal lapilli tuff
2 Dacitic wacke
3 Conglomerate
5 Dacite
7 Quartz-eye tuff
8 Welded crystal lapilli tuff
9 Two feldspar porphyry lithic crystal tuff
10 Carbonaceous lithic-crystal tuff
11 Rhyodacitic lapilli tuff
12 Rhyodacite
13 Dacitic ash tuff
14 Amygdaloidal dacite flow
15 Gossan Creek porphyry agglomerate
16 Lapilli tuff with rhyolite fragments
lJDM Dacitic maroon-coloured volcanics
1 Maroon crowded feldspar porphyry flow or intrusive
2 Maroon crowded feldspar porphyry volcanic breccia or agglomerite
3 Maroon feldspar crystal lithic bedded tuff and wacke
4 Maroon heterolithic lapilli tuff/conglomerate
lJSA Andesitic volcanics and epiclastic sediments
1 Andesitic lithic crystal tuff, lapilli tuff and agglomerate
2 Conglomerate
3 Calcareous argillite and siltstone
4 Wacke
5 Andesitic ash tuff
6 Amygdaloidal basalt
7 Argillite/siltstone with dolomitic siltstone/wacke lenses
8 Interbedded clastics
9 Andesite dyke
10 Non-calcareous siltstone/greywacke
11 Pebbly greywacke/tuff
12 Argillite
13 Shale with interbedded siltstone
14 Pillow Basalt
UPPER TRIASSIC
Sluhini Group
uTBS Basalt and andesite
1 Basalt
3 Feldspar crystal lithic tuff
4 Amygdaloidal basalt
5 Massive andesite
6 Interbedded mafic tuff and argillaceous tuff
uTSE Sediments
1 Interbedded argillite and siltstone
2 Wacke
3 Conglomerate
4 Mafic siltstone wacke and black calcareous argillite
LOWER MISSISSIPPIAN
More Creek Plutonic Suite
MGR Granite
UPPER DEVONIAN AND MISSISSIPPIAN
Stikine Assemblage
DMSV Sediments and volcanics
1 Massive fine-grained basalt
2 Medium-grained basalt
3 Dolomitic wacke and conglomerate
4 Chert
5 Argillite
6 Mafic tuff
7 Dacitic ash tuff
8 Maroon wacke/siltstone
9 Andesitic crystal lithic tuff
10 Pyroxene-phyric basaltic lithic tuff
11 Siltstone/wacke
RDN Surface Rocks
Au (ppb)
> 1,000 (ppb) (45)
50 to 1,000 (133)
< 50 (ppb) (1354)
RDN Soil Geochemistry
Au (ppb)
> 59 (ppb) (98th percentile) (210)
21 to 59 (95th percentile) (267)
7 to 21 (85th percentile) (852)
3 to 7 (70th percentile) (1254)
< 3 (ppb) all others (5589)
RDN Silt Geochemistry
Au (ppb)
> 30 (ppb) (98th percentile) (11)
14.8 to 30 (95th percentile) (7)
5 to 14.8 (85th percentile) (94)
< 5 (ppb) all others (278)
MINERAL AND ALTERATION ABBREVIATIONS
AK ankerite
AS arsenopyrite
AZ azurite
BA barite
BI biotite
BX breccia
CA calcite
CD chalcedony
CB Fe-carbonate
CL chlorite
CP chalcopyrite
CY clay
DI diopside
EP epidote
FP feldspars
GC glauconite
GE goethite
GL galena
HB hornblende
HE hematite
HF hornfels
HZ hydrozincite
JA jarosite
KF K-spar
MC malachite
MG magnetite
MN manganese
MO molybdenite
MS sericite
MT marcasite
MU muscovite
PA pyrargyrite
PO pyrrhotite
PX pyroxene
PY Pyrite
QV quartz vein
QZ quartz
SI silica
SP sphalerite
SR scorodite
SS Sulphosalts
TT Tetrahedrite
MODIFIERS
/ interbedded
ag agglomerate
ar argillaceous
at ash tuff
bd bedded
bl black
br brown
bx breccia
ca calcareous
cg coarse-grained
cn crenulated
col columnar
cr carbonaceous
ct cherty
dk dark
fb flow-banded
fg fine-grained
fi fissile
fl flow
fo foliated
fs fossiliferous
gr green
gs gossan
gy grey
hf hornfels
la laminated
li lithic tuff
lt lapilli tuff
ma maroon
md medium
mg medium-grained
mx massive
ph phyllitic
pk poikilitic
pp porphyritic
pw pillowed
qe quartz eye
qz quartz
sh sheared
si siliceous
sk skarn
ss slickensides
stk stockwork
tf tuff
vn vein
xt crystal tuff
LITHOLOGIES
ANDS Andesite
DACT Dacite
ARGL Argillite
CHRT Chert
CNGL Conglomerate
GRIT Grit
GRWK Greywacke
MDST Mudstone
SHAL Shale
SLTS Siltstone
SNDS Sandstone
MAFC Mafic Volcanic
TRAC Trachyte
BSLT Basalt
RHYL Rhyolite
DLMT Dolomite
DIOR Diorite
FHPO/ FQHP Feldspar Hornblende Porphyry
FQPO Feldspar Quartz Porphyry
FPPO Feldspar Porphyry
GRDR Granodiorite
GRNT Granite
PHYL Phyllite
SCHS Schist
SLAT Slate
INTM Intermediate Volcanic
GABR Gabbro
LMST Limestone
QRZT Quartzite
SYMBOLS
Outcrop
Bedding (inclined, vertical)
Foliation (inclined, vertical)
Fracturing (inclined, vertical)
Faulting (inclined, vertical)
Veining (inclined, vertical)
Lithological contact (inferred)
Intense alteration
Fault, Lineament
Rock sample (float, outcrop,channel 2005)
Silt Sample
Age Date
Soil sample (grid, reconnaissance)
Fossil location
Drill hole
Claim Number
Fly camp location
Helicopter pad
0 50 100 150 250
metres
RIMFIRE MINERALS CORPORATION
RDN PROPERTY
Top-Gossan Creek Porphyry Geochemistry
Gold
Date: JAN 2006
Scale: 1:2,500
Figure 14a
U.T.M. Zone UTM9 - NAD83
Mining District LIARD
N.T.S. 104B15/G2
State/Province BC



RDN Geological Legend

LOWER TO MIDDLE JURASSIC
Hazelton Group
mJDI Diorite
mJRY Rhyolite (Logan Rhyolite)
1 Aphanitic Rhyolite
2 Crystal lapilli tuff
mJBA Basalt and Andesite
1 Basalt flows
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8 Maroon wacke/siltstone
9 Andesitic crystal lithic tuff
10 Pyroxene-phyric basaltic lithic tuff
11 Siltstone/wacke

RDN Surface Rocks
Ag (ppm)

- > 30 (ppm) (79)
- 4 to 30 (157)
- < 4 (ppm) (1296)

RDN Soil Geochemistry
Ag (ppm)

- > 2.3 (ppm) (98th percentile) (172)
- 1.4 to 2.3 (95th percentile) (261)
- 0.8 to 1.4 (85th percentile) (848)
- 0.4 to 0.8 (70th percentile) (1597)
- < 0.4 (ppm) all others (5020)

RDN Silt Geochemistry
Ag (ppm)

- > 0.5 (ppm) (95th percentile) (184)
- 0.25 to 0.5 (80th percentile) (44)
- 0.1 to 0.25 (55th percentile) (91)
- < 0.1 (ppm) all others (73)

MINERAL AND ALTERATION ABBREVIATIONS

AK	ankerite	HZ	hydrozincite
AS	arsenopyrite	JA	jarosite
AZ	azurite	KF	K-spar
BA	barite	MC	malachite
BI	biotite	MG	magnetite
BX	breccia	MN	manganese
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cr	carbonaceous	qe	quartz eye
ct	cherty	qz	quartz
dk	dark	sh	sheared
fb	flow-banded	si	siliceous
fg	fine-grained	sk	skarn
fi	fissile	ss	slickensides
fl	flow	stk	stockwork
fo	foliated	tf	tuff
fs	fossiliferous	vn	vein
gr	green	xt	crystal tuff
gs	gossan		
gy	grey		

LITHOLOGIES

ANDS	Andesite	DIOR	Diorite
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SHAL	Shale	PHYL	Phyllite
SLTS	Siltstone	SCHS	Schist
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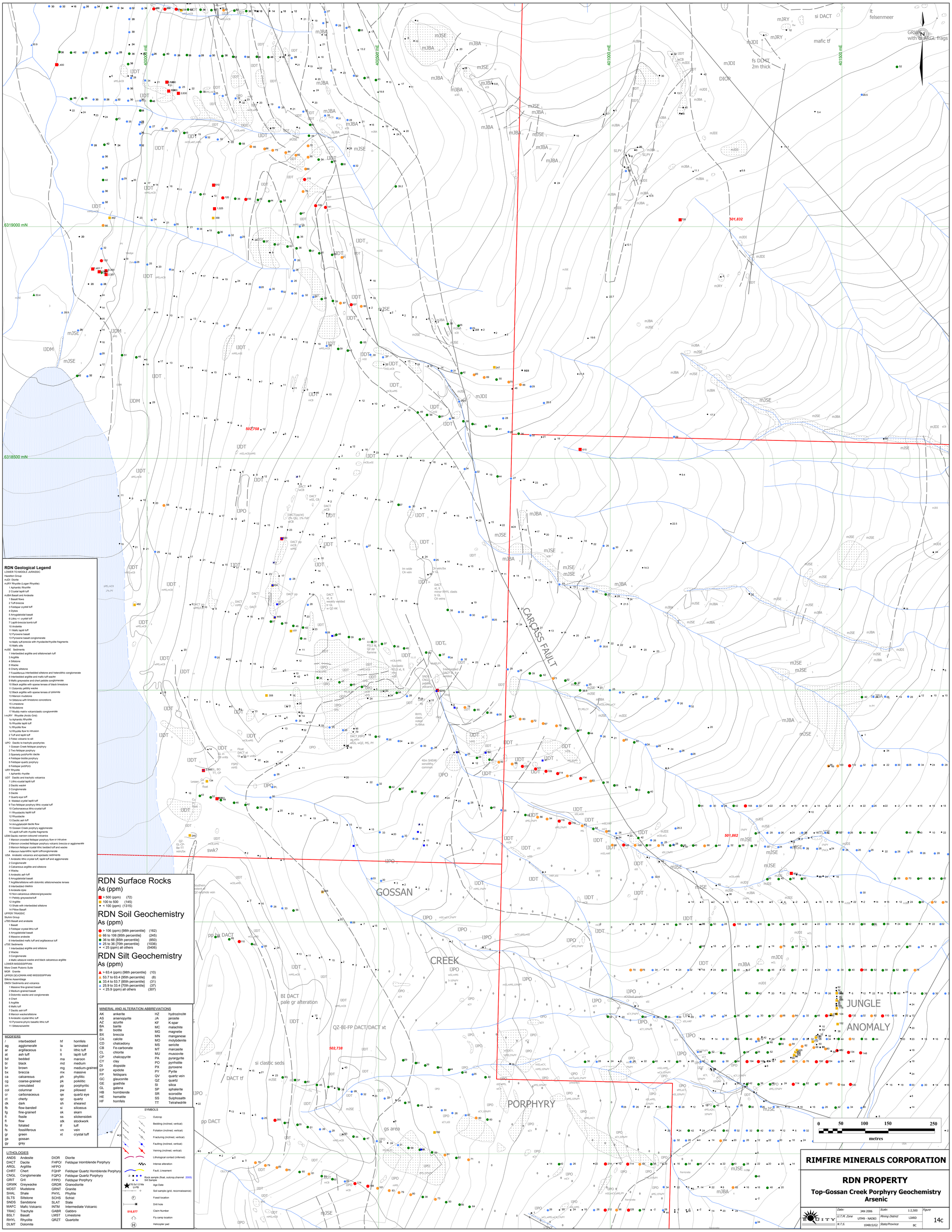
- 176.5±1.0 Ma U-Pb — Age Date
- Soil sample (grid, reconnaissance)
- Fossil location
- Drill hole
- 516,877 — Claim Number
- Fly camp location
- Helicopter pad

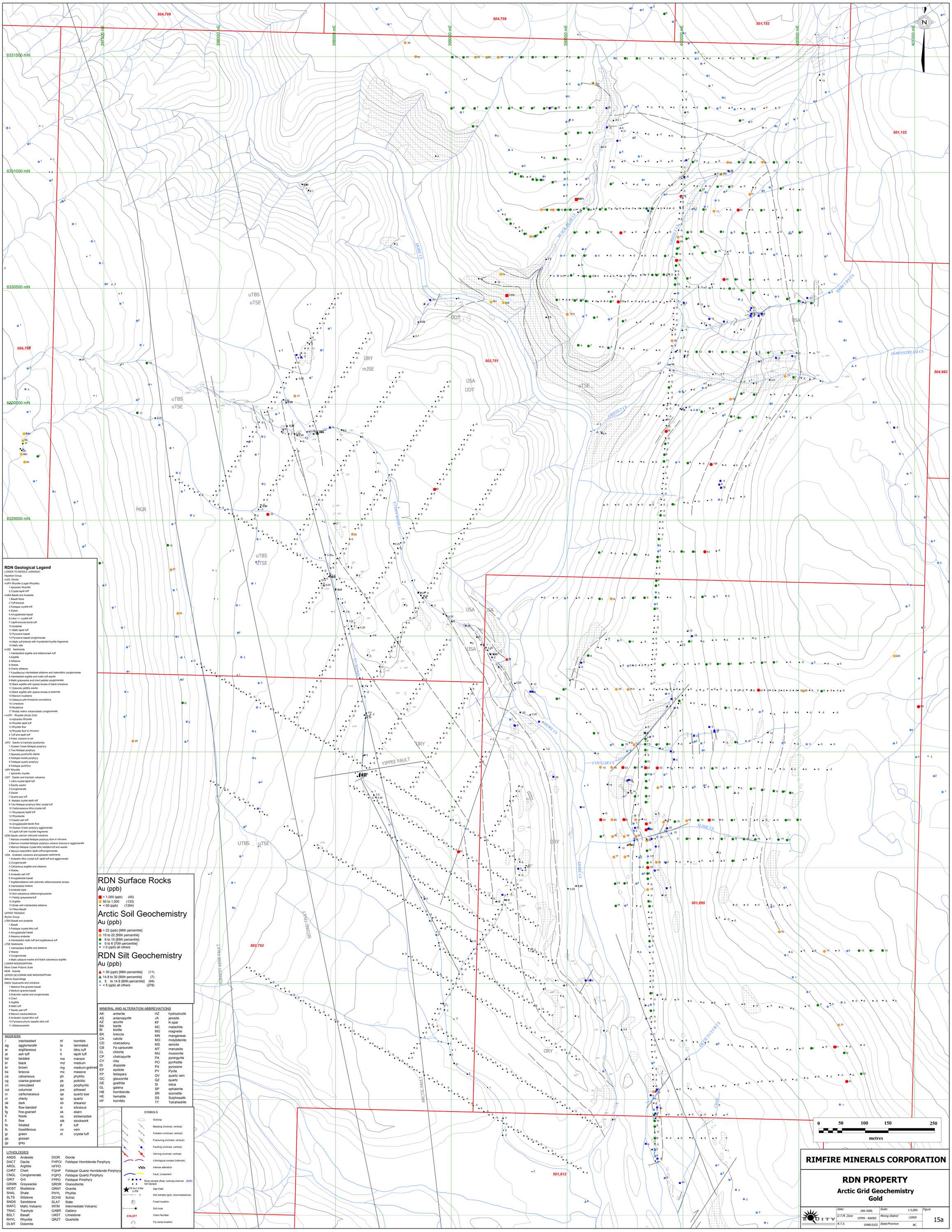
RIMFIRE MINERALS CORPORATION

RDN PROPERTY

Top-Gossan Creek Porphyry Geochemistry Silver

Date:	JAN 2006	Scale:	1:2,500	Figure
U.T.M. Zone	UTM9 - NAD83	Mining District	LIARD	14b
N.T.S.	104B15/G2	State/Province	BC	


RDN Geological Legend
LOWER TO MIDDLE JURASSIC
Hazelton Group
mJDI Diorite
mJRY Rhyolite (Logan Rhyolite)
1 Aphanitic Rhyolite
2 Crystal lapilli tuff
mJBA Basalt and Andesite
1 Basalt flows
2 Tuff-breccia
3 Feldspar crystal tuff
4 Dykes
5 Amygdaloidal basalt
6 Lithic +/- crystal tuff
7 Lapilli-breccia bomb tuff
10 Andesite
11 Mafic lapilli tuff
12 Pyroxene basalt
13 Pyroxene basalt conglomerate
14 Mafic tuff-breccia with rhyodacite/rhyolite fragments
15 Mafic silts
mJSE Sediments
1 Interbedded argillite and siltstone/ash tuff
3 Argillite
4 Siltstone
5 Wacke
6 Cherty siltstone
7 Fossiliferous interbedded siltstone and heterolithic conglomerate
8 Interbedded argillite and mafic tuff-wacke
9 Mafic greywacke and chert pebble conglomerate
10 Black argillite with sparse lenses of black limestone
11 Dolomitic pebbly wacke
12 Black argillite with sparse lenses of dolomite
13 Maroon mudstone
14 Siltstone with limestone concretions
15 Limestone
16 Mudstone
17 Muddy matrix volcaniclastic conglomerate
l-mJRY Rhyolite (Arctic Grid)
1a Aphanitic Rhyolite
1b Rhyolite lapilli tuff
1c Rhyolite flow
1d Rhyolite flow to intrusion
2 Tuff and lapilli tuff
3 Felsic volcanic to sill
lJPO Dacitic to trachytic porphyries
1 Gossan Creek feldspar porphyry
2 Two feldspar porphyry
3 Sparsely porphyritic dacite
4 Feldspar-biotite porphyry
5 Feldspar-quartz porphyry
6 Feldspar porphyry
lJRY Rhyolite
1 Aphanitic rhyolite
lJDT Dacitic and trachytic volcanics
1 Lithic-crystal lapilli tuff
2 Dacitic wacke
3 Conglomerate
5 Dacite
7 Quartz-eye tuff
8 Welded crystal lapilli tuff
9 Two feldspar porphyry lithic crystal tuff
10 Carbonaceous lithic-crystal tuff
11 Rhyodacitic lapilli tuff
12 Rhyodacite
13 Dacitic ash tuff
14 Amygdaloidal dacite flow
15 Gossan Creek porphyry agglomerate
16 Lapilli tuff with rhyolite fragments
lJDM Dacitic maroon-coloured volcanics
1 Maroon crowded feldspar porphyry flow or intrusive
2 Maroon crowded feldspar porphyry volcanic breccia or agglomerate
3 Maroon feldspar crystal lithic bedded tuff and wacke
4 Maroon heterolithic lapilli tuff/conglomerate
USA Andesitic volcanics and epiclastic sediments
1 Andesitic lithic crystal tuff, lapilli tuff and agglomerate
2 Conglomerate
3 Calcareous argillite and siltstone
4 Wacke
5 Andesitic ash tuff
6 Amygdaloidal basalt
7 Argillite/siltstone with dolomitic siltstone/wacke lenses
8 Interbedded clastics
9 Andesite dyke
10 Non-calcareous siltstone/greywacke
11 Pebbly greywacke/tuff
12 Argillite
13 Shale with interbedded siltstone
14 Pillow Basalt
UPPER TRIASSIC
Stuhini Group
uTBS Basalt and andesite
1 Basalt
3 Feldspar crystal lithic tuff
4 Amygdaloidal basalt
5 Massive andesite
6 Interbedded mafic tuff and argillaceous tuff
uTSE Sediments
1 Interbedded argillite and siltstone
2 Wacke
3 Conglomerate
4 Mafic siltstone wacke and black calcareous argillite
LOWER MISSISSIPPIAN
More Creek Plutonic Suite
MGR Granite
UPPER DEVONIAN AND MISSISSIPPIAN
Stikine Assemblage
DMSV Sediments and volcanics
1 Massive fine-grained basalt
2 Medium-grained basalt
3 Dolomitic wacke and conglomerate
4 Chert
5 Argillite
6 Mafic tuff
7 Dacitic ash tuff
8 Maroon wacke/siltstone
9 Andesitic crystal lithic tuff
10 Pyroxene-phyric basaltic litric tuff
11 Siltstone/wacke
RDN Surface Rocks
As (ppm)
> 500 (ppm) (72)
100 to 500 (145)
< 100 (ppm) (1315)
RDN Soil Geochemistry
As (ppm)
> 106 (ppm) (98th percentile) (162)
66 to 106 (95th percentile) (245)
36 to 66 (85th percentile) (850)
25 to 36 (70th percentile) (1036)
< 25 (ppm) all others (5406)
RDN Silt Geochemistry
As (ppm)
> 63.4 (ppm) (98th percentile) (10)
53.7 to 63.4 (95th percentile) (8)
33.4 to 53.7 (85th percentile) (31)
25.9 to 33.4 (70th percentile) (37)
< 25.9 (ppm) all others (307)
MINERAL AND ALTERATION ABBREVIATIONS
AK ankerite
AS arsenopyrite
AZ azurite
BA barite
BI biotite
BX breccia
CA calcite
CD chalcedony
CB Fe-carbonate
CL chlorite
CP chalcopyrite
CY clay
DI diopside
EP epidote
FP feldspars
GC glauconite
GE goethite
GL galena
HB hornblende
HE hematite
HF hornfels
HZ hydrozincite
JA jarosite
KF K-spar
MC malachite
MG magnetite
MN manganese
MO molybdenite
MS sericite
MT marcasite
MU muscovite
PA pyrargyrite
PO pyrrhotite
PX pyroxene
PY Pyrite
QV quartz vein
QZ quartz
SI silica
SP sphalerite
SR scorodite
SS Sulphosalts
TR Tetrahedrite
MODIFIERS
/ interbedded
ag agglomerate
ar argillaceous
at ash tuff
bd bedded
bl black
br brown
bx breccia
ca calcareous
cg coarse-grained
cn crenulated
col columnar
cr carbonaceous
ct cherty
dk dark
fb flow-banded
fg fine-grained
fi fissile
fl flow
fo foliated
fs fossiliferous
gr green
gs gossan
gy grey
hf hornfels
la laminated
li lithic tuff
lt lapilli tuff
ma maroon
md medium
mg medium-grained
mx massive
ph phyllitic
pk poikilitic
pp porphyritic
pw pillowed
qe quartz eye
qz quartz
sh sheared
si siliceous
sk skarn
ss slickensides
stk stockwork
tf tuff
vn vein
xt crystal tuff
LITHOLOGIES
ANDS Andesite
DACT Dacite
ARGL Argillite
CHRT Chert
CNGL Conglomerate
GRIT Grit
GRWK Greywacke
MDST Mudstone
SHAL Shale
SLTS Siltstone
SNDS Sandstone
MAFC Mafic Volcanic
TRAC Trachyte
BSLT Basalt
RHYL Rhyolite
DLMT Dolomite
DIOR Diorite
FHPO/ HFPO Feldspar Hornblende Porphyry
FQHP Feldspar Quartz Hornblende Porphyry
FQPO Feldspar Quartz Porphyry
FPPO Feldspar Porphyry
GRDR Granodiorite
GRNT Granite
PHYL Phyllite
SCHS Schist
SLAT Slate
INTM Intermediate Volcanic
GABR Gabbro
LMST Limestone
QRZT Quartzite
SYMBOLS
Outcrop
Bedding (inclined, vertical)
Foliation (inclined, vertical)
Fracturing (inclined, vertical)
Faulting (inclined, vertical)
Veining (inclined, vertical)
Lithological contact (inferred)
Intense alteration
Fault, Lineament
Rock sample (float, outcrop,channel 2005)
Silt Sample
Age Date
Soil sample (grid, reconnaissance)
Fossil location
Drill hole
Claim Number
Fly camp location
Helicopter pad
GOSSAN
CREEK
PORPHYRY
JUNGLE
ANOMALY
CARCASS FAULT
BI DACT
pale gr alteration
QZ-BI-FP DACT/DACT xt
si clastic seds
DACT tf
pp DACT
gs area
pp hx DACT
swk?
mJDI
DIOR
mJRY
si DACT
mafic tf
fs DLMT
2m thick
lt
felsenmeer
GRWK
with U-PCGL frags
501,832
501,862
502,758
502,738
6319000 mN
6318500 mN
400000 mE
400500 mE
401000 mE
401500 mE
0 50 100 150 250
metres
RIMFIRE MINERALS CORPORATION
RDN PROPERTY
Top-Gossan Creek Porphyry Geochemistry
Arsenic
Date: JAN 2006
Scale: 1:2,500
Figure
U.T.M. Zone UTM9 - NAD83
Mining District LIARD
N.T.S. 104B15/G2
State/Province BC
14c



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8 Maroon wacke/siltstone
9 Andesitic crystal lithic tuff
10 Pyroxene-phyric basaltic lithic tuff
11 Siltstone/wacke

RDN Surface Rocks

Au (ppb)

- > 1,000 (ppb) (45)
- 50 to 1,000 (133)
- < 50 (ppb) (1354)

Arctic Soil Geochemistry

Au (ppb)

- > 22 (ppb) {98th percentile}
- 15 to 22 {95th percentile}
- 6 to 15 {85th percentile}
- 0 to 6 {70th percentile}
- < 0 (ppb) all others

RDN Silt Geochemistry

Au (ppb)

- > 30 (ppb) {98th percentile} (11)
- 14.8 to 30 {95th percentile} (7)
- 5 to 14.8 {85th percentile} (94)
- < 5 (ppb) all others (278)

MINERAL AND ALTERATION ABBREVIATIONS

AK	ankerite	HZ	hydrozincite
AS	arsenopyrite	JA	jarosite
AZ	azurite	KF	K-spar
BA	barite	MC	malachite
BI	biotite	MG	magnetie
BX	breccia	MN	manganese
CA	calcite	MO	molybdenite
CD	chalcedony	MS	sericite
CB	Fe-carbonate	MT	marcasite
CL	chlorite	MU	muscovite
CP	chalcopyrite	PA	pyrargyrite
CY	clay	PO	pyrrhotite
DI	diopside	PX	pyroxene
EP	epidote	PY	Pyrite
FP	feldspars	QV	quartz vein
GC	glauconite	QZ	quartz
GE	goethite	SI	silica
GL	galena	SP	sphalerite
HB	hornblende	SR	scorodite
HE	hematite	SS	Sulphosalts
HF	hornfels	TT	Tetrahedrite

MODIFIERS

/	interbedded	hf	hornfels
ag	agglomerate	la	laminated
ar	argillaceous	li	lithic tuff
at	ash tuff	lt	lapilli tuff
bd	bedded	ma	maroon
bl	black	md	medium
br	brown	mg	medium-grained
bx	breccia	mx	massive
ca	calcareous	ph	phyllitic
cg	coarse-grained	pk	poikilitic
cn	crenulated	pp	porphyritic
col	columnar	pw	pillowed
cr	carbonaceous	qe	quartz eye
ct	cherty	qz	quartz
dk	dark	sh	sheared
fb	flow-banded	si	siliceous
fg	fine-grained	sk	skarn
fi	fissile	ss	slickensides
fl	flow	stk	stockwork
fo	foliated	tf	tuff
fs	fossiliferous	vn	vein
gr	green	xt	crystal tuff
gs	gossan		
gy	grey		

LITHOLOGIES

ANDS	Andesite	DIOR	Diorite
DACT	Dacite	FHPO/	Feldspar Hornblende Porphyry
ARGL	Argillite	HFPO	
CHRT	Chert	FQHP	Feldspar Quartz Hornblende Porphyry
CNGL	Conglomerate	FQPO	Feldspar Quartz Porphyry
GRIT	Grit	FPPO	Feldspar Porphyry
GRWK	Greywacke	GRDR	Granodiorite
MDST	Mudstone	GRNT	Granite
SHAL	Shale	PHYL	Phyllite
SLTS	Siltstone	SCHS	Schist
SNDS	Sandstone	SLAT	Slate
MAFC	Mafic Volcanic	INTM	Intermediate Volcanic
TRAC	Trachyte	GABR	Gabbro
BSLT	Basalt	LMST	Limestone
RHYL	Rhyolite	QRZT	Quartzite
DLMT	Dolomite		

SYMBOLS

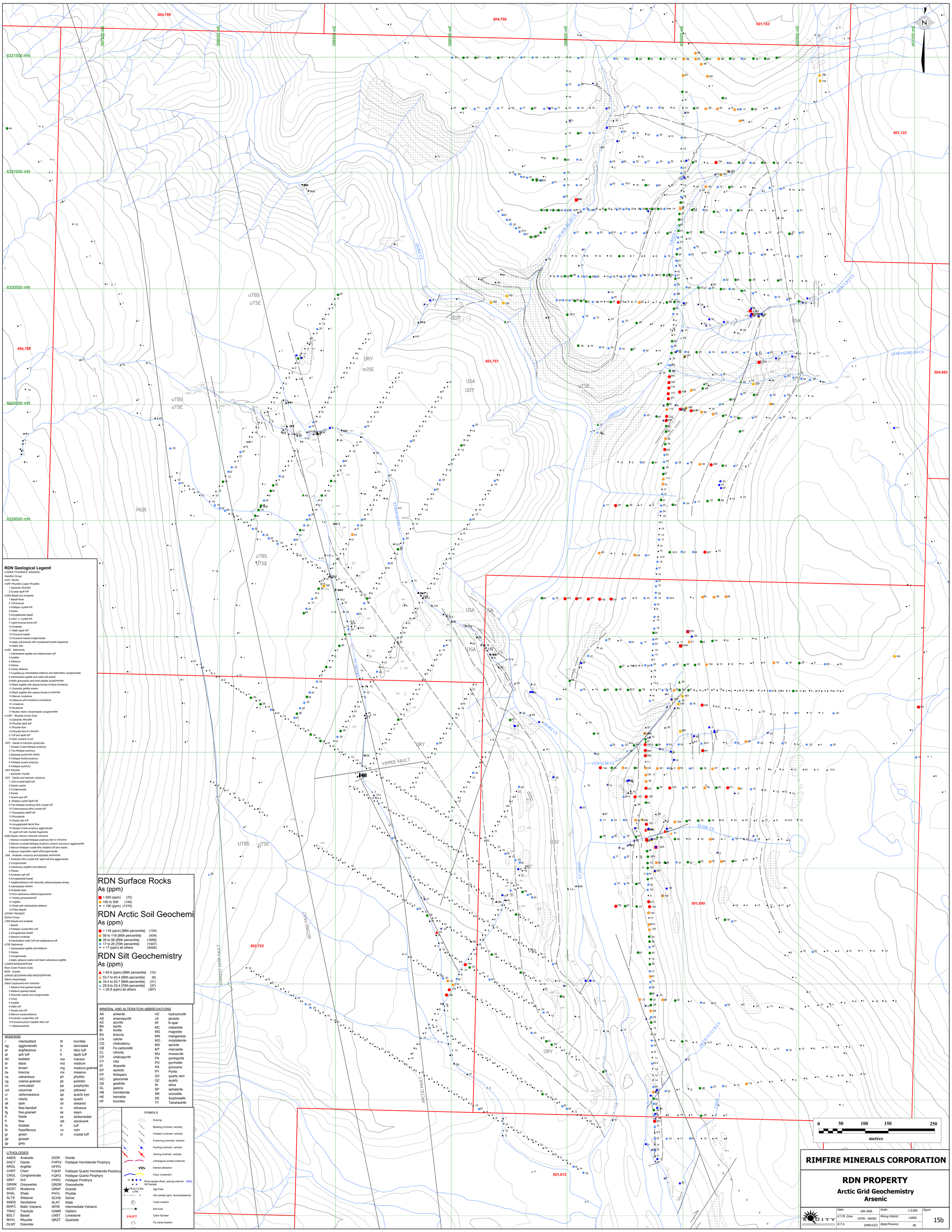
- Outcrop
- Bedding (inclined, vertical)
- Foliation (inclined, vertical)
- Fracturing (inclined, vertical)
- Faulting (inclined, vertical)
- Veining (inclined, vertical)
- Lithological contact (inferred)
- Intense alteration
- Fault, Lineament
- Rock sample (float, outcrop,channel 2005) Silt Sample
- 76.5±1.0 Ma U-Pb — Age Date
- Soil sample (grid, reconnaissance)
- Fossil location
- Drill hole
- 516,877 — Claim Number
- Fly camp location

RIMFIRE MINERALS CORPORATION

RDN PROPERTY

Arctic Grid Geochemistry
Gold

EQUITY	Date: JAN 2006	Scale: 1:5,000	Figure	
	U.T.M. Zone UTM9 - NAD83	Mining District LIARD	15a	
	N.T.S. 104B15/G2	State/Province BC		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11 Siltstone/wacke
RDN Surface Rocks
As (ppm)
> 500 (ppm) (72)
100 to 500 (145)
< 100 (ppm) (1315)
RDN Arctic Soil Geochemi
As (ppm)
> 118 (ppm) (98th percentile) (130)
56 to 118 (95th percentile) (434)
26 to 56 (85th percentile) (1659)
17 to 26 (70th percentile) (1447)
< 17 (ppm) all others (4029)
RDN Silt Geochemistry
As (ppm)
> 63.4 (ppm) (98th percentile) (10)
53.7 to 63.4 (95th percentile) (8)
33.4 to 53.7 (85th percentile) (31)
25.9 to 33.4 (70th percentile) (37)
< 25.9 (ppm) all others (307)
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CL chlorite
CP chalcopyrite
CY clay
DI diopside
EP epidote
FP feldspars
GC glauconite
GE goethite
GL galena
HB hornblende
HE hematite
HF hornfels
HZ hydrozincite
JA jarosite
KF K-spar
MC malachite
MG magnetie
MN manganese
MO molybdenite
MS sericite
MT marcasite
MU muscovite
PA pyrargyrite
PO pyrrhotite
PX pyroxene
PY Pyrite
QV quartz vein
QZ quartz
SI silica
SP sphalerite
SR scorodite
SS Sulphosalts
TT Tetrahedrite
MODIFIERS
/ interbedded
ag agglomerate
ar argillaceous
at ash tuff
bd bedded
bl black
br brown
bx breccia
ca calcareous
cg coarse-grained
cn crenulated
col columnar
cr carbonaceous
ct cherty
dk dark
fb flow-banded
fg fine-grained
fi fissile
fl flow
fo foliated
fs fossiliferous
gr green
gs gossan
gy grey
hf hornfels
la laminated
li lithic tuff
lt lapilli tuff
ma maroon
md medium
mg medium-grained
mx massive
ph phyllitic
pk poikilitic
pp porphyritic
pw pillowed
qe quartz eye
qz quartz
sh sheared
si siliceous
sk skarn
ss slickensides
stk stockwork
tf tuff
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LITHOLOGIES
ANDS Andesite
DACT Dacite
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CHRT Chert
CNGL Conglomerate
GRIT Grit
GRWK Greywacke
MDST Mudstone
SHAL Shale
SLTS Siltstone
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MAFC Mafic Volcanic
TRAC Trachyte
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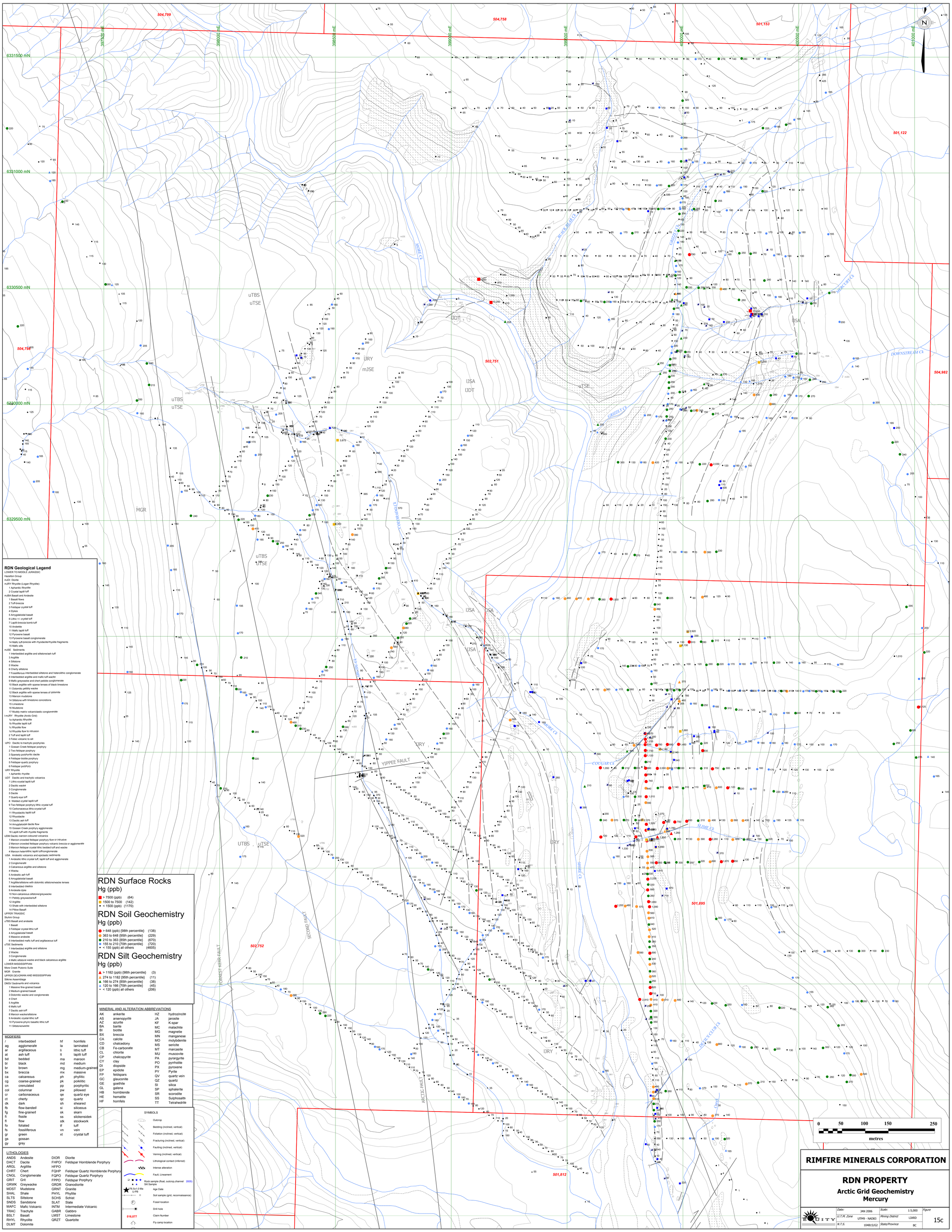
HFPO
FQHP Feldspar Quartz Hornblende Porphyry
FQPO Feldspar Quartz Porphyry
FPPO Feldspar Porphyry
GRDR Granodiorite
GRNT Granite
PHYL Phyllite
SCHS Schist
SLAT Slate
INTM Intermediate Volcanic
GABR Gabbro
LMST Limestone
QRZT Quartzite
SYMBOLS
Outcrop
Bedding (inclined, vertical)
Foliation (inclined, vertical)
Fracturing (inclined, vertical)
Faulting (inclined, vertical)
Veining (inclined, vertical)
Lithological contact (inferred)
Intense alteration
Fault, Lineament
Rock sample (float, outcrop,channel 2005)
Silt Sample
76.5±1.0 Ma U-PB
Age Date
Soil sample (grid, reconnaissance)
Fossil location
Drill hole
516,877
Claim Number
Fly camp location
0 50 100 150 250
metres
RIMFIRE MINERALS CORPORATION
RDN PROPERTY
Arctic Grid Geochemistry
Arsenic
Date: JAN 2006
Scale: 1:5,000
Figure
U.T.M. Zone UTM9 - NAD83
Mining District LIARD
N.T.S. 104B15/G2
State/Province BC
15b
504,799
504,758
501,153
501,122
504,798
502,751
504,982
501,895
502,752
501,812
6331500 mN
6331000 mN
6330500 mN
6330000 mN
6329500 mN
397500 mE
398000 mE
398500 mE
399000 mE
399500 mE
400000 mE
400500 mE
401000 mE
uTBS
uTSE
JDT
JRY
mJSE
JSA
MGR
YIPPEE FAULT
SECOND FAULT
FORREST KERR FAULT
ARCTIC FAULT
MORE CK
BLACK BEAR CK
GRIZZLY CK
MERCURY CK
DOWNSTREAM CK
COUGAR CK
SLIME CK
DEVILS CLUB CK



RDN Geological Legend

LOWER TO MIDDLE JURASSIC
Hazelton Group
mJDI Diorite
mJRY Rhyolite (Logan Rhyolite)
1 Aphanitic Rhyolite
2 Crystal lapilli tuff
mJSA Basalt and Andesite
1 Basalt flows
2 Tuff-breccia
3 Feldspar crystal tuff
4 Dykes
5 Amygdaloidal basalt
6 Lithic +/- crystal tuff
7 Lapilli-breccia bomb tuff
10 Andesite
11 Mafic lapilli tuff
12 Pyroxene basalt
13 Pyroxene basalt conglomerate
14 Mafic tuff-breccia with rhyodacite/rhyolite fragments
15 Mafic silts
mJSE Sediments
1 Interbedded argillite and siltstone/ash tuff
3 Argillite
4 Siltstone
5 Wacke
6 Cherty siltstone
7 Fossiliferous interbedded siltstone and heterolithic conglomerate
8 Interbedded argillite and mafic tuff-wacke
9 Mafic greywacke and chert pebble conglomerate
10 Black argillite with sparse lenses of black limestone
11 Dolomitic pebbly wacke
12 Black argillite with sparse lenses of dolomite
13 Maroon mudstone
14 Siltstone with limestone concretions
15 Limestone
16 Mudstone
17 Muddy matrix volcaniclastic conglomerate
l-mJRY Rhyolite (Arctic Grid)
1a Aphanitic Rhyolite
1b Rhyolite lapilli tuff
1c Rhyolite flow
1d Rhyolite flow to intrusion
2 Tuff and lapilli tuff
3 Felsic volcanic to sill
lJPO Dacitic to trachytic porphyries
1 Gossan Creek feldspar porphyry
2 Two feldspar porphyry
3 Sparsely porphyritic dacite
4 Feldspar-biotite porphyry
5 Feldspar-quartz porphyry
6 Feldspar porphyry
lJRY Rhyolite
1 Aphanitic rhyolite
lJDT Dacitic and trachytic volcanics
1 Lithic-crystal lapilli tuff
2 Dacitic wacke
3 Conglomerate
5 Dacite
7 Quartz-eye tuff
8 Welded crystal lapilli tuff
9 Two feldspar porphyry lithic crystal tuff
10 Carbonaceous lithic-crystal tuff
11 Rhyodacitic lapilli tuff
12 Rhyodacite
13 Dacitic ash tuff
14 Amygdaloidal dacite flow
15 Gossan Creek porphyry agglomerate
16 Lapilli tuff with rhyolite fragments
lJDM Dacitic maroon-coloured volcanics
1 Maroon crowded feldspar porphyry flow or intrusive
2 Maroon crowded feldspar porphyry volcanic breccia or agglomerite
3 Maroon feldspar crystal lithic bedded tuff and wacke
4 Maroon heterolithic lapilli tuff/conglomerate
lJSA Andesitic volcanics and epiclastic sediments
1 Andesitic lithic crystal tuff, lapilli tuff and agglomerate
2 Conglomerate
3 Calcareous argillite and siltstone
4 Wacke
5 Andesitic ash tuff
6 Amygdaloidal basalt
7 Argillite/siltstone with dolomitic siltstone/wacke lenses
8 Interbedded clastics
9 Andesite dyke
10 Non-calcareous siltstone/greywacke
11 Pebbly greywacke/tuff
12 Argillite
13 Shale with interbedded siltstone
14 Pillow Basalt
UPPER TRIASSIC
Stuhini Group
uTBS Basalt and andesite
1 Basalt
3 Feldspar crystal lithic tuff
4 Amygdaloidal basalt
5 Massive andesite
6 Interbedded mafic tuff and argillaceous tuff
uTSE Sediments
1 Interbedded argillite and siltstone
2 Wacke
3 Conglomerate
4 Mafic siltstone wacke and black calcareous argillite
LOWER MISSISSIPPIAN
More Creek Plutonic Suite
MGR Granite
UPPER DEVONIAN AND MISSISSIPPIAN
Stikine Assemblage
DMSV Sedimentts and volcanics
1 Massive fine-grained basalt
2 Medium-grained basalt
3 Dolomitic wacke and conglomerate
4 Chert
5 Argillite
6 Mafic tuff
7 Dacitic ash tuff
8 Maroon wacke/siltstone
9 Andesitic crystal lithic tuff
10 Pyroxene-phyric basaltic lithic tuff
11 Siltstone/wacke

RDN Surface Rocks
Hg (ppb)

- > 7500 (ppb) (64)
- 1500 to 7500 (142)
- < 1500 (ppb) (1170)

RDN Soil Geochemistry
Hg (ppb)

- > 648 (ppb) {98th percentile} (138)
- 363 to 648 {95th percentile} (229)
- 210 to 363 {85th percentile} (670)
- 155 to 210 {70th percentile} (720)
- < 155 (ppb) all others (4605)

RDN Silt Geochemistry
Hg (ppb)

- > 1182 (ppb) {98th percentile} (3)
- 274 to 1182 {95th percentile} (11)
- 166 to 274 {85th percentile} (38)
- 120 to 166 {70th percentile} (45)
- < 120 (ppb) all others (206)

MINERAL AND ALTERATION ABBREVIATIONS

AK	ankerite	HZ	hydrozincite
AS	arsenopyrite	JA	jarosite
AZ	azurite	KF	K-spar
BA	barite	MC	malachite
BI	biotite	MG	magnetie
BX	breccia	MN	manganese
CA	calcite	MO	molybdenite
CD	chalcedony	MS	sericite
CB	Fe-carbonate	MT	marcasite
CL	chlorite	MU	muscovite
CP	chalcopyrite	PA	pyrargyrite
CY	clay	PO	pyrrhotite
DI	diopside	PX	pyroxene
EP	epidote	PY	Pyrite
FP	feldspars	QV	quartz vein
GC	glauconite	QZ	quartz
GE	goethite	SI	silica
GL	galena	SP	sphalerite
HB	hornblende	SR	scorodite
HE	hematite	SS	Sulphosalts
HF	hornfels	TT	Tetrahedrite

MODIFIERS

/	interbedded	hf	hornfels
ag	agglomerate	la	laminated
ar	argillaceous	li	lithic tuff
at	ash tuff	lt	lapilli tuff
bd	bedded	ma	maroon
bl	black	md	medium
br	brown	mg	medium-grained
bx	breccia	mx	massive
ca	calcareous	ph	phyllitic
cg	coarse-grained	pk	poikilitic
cn	crenulated	pp	porphyritic
col	columnar	pw	pillowed
cr	carbonaceous	qe	quartz eye
ct	cherty	qz	quartz
dk	dark	sh	sheared
fb	flow-banded	si	siliceous
fg	fine-grained	sk	skarn
fi	fissile	ss	slickensides
fl	flow	stk	stockwork
fo	foliated	tf	tuff
fs	fossiliferous	vn	vein
gr	green	xt	crystal tuff
gs	gossan		
gy	grey		

LITHOLOGIES

ANDS	Andesite	DIOR	Diorite
DACT	Dacite	FHPO/	Feldspar Hornblende Porphyry
ARGL	Argillite	HFPO	
CHRT	Chert	FQHP	Feldspar Quartz Hornblende Porphyry
CNGL	Conglomerate	FQPO	Feldspar Quartz Porphyry
GRIT	Grit	FPPO	Feldspar Porphyry
GRWK	Greywacke	GRDR	Granodiorite
MDST	Mudstone	GRNT	Granite
SHAL	Shale	PHYL	Phyllite
SLTS	Siltstone	SCHS	Schist
SNDS	Sandstone	SLAT	Slate
MAFC	Mafic Volcanic	INTM	Intermediate Volcanic
TRAC	Trachyte	GABR	Gabbro
BSLT	Basalt	LMST	Limestone
RHYL	Rhyolite	QRZT	Quartzite
DLMT	Dolomite		

SYMBOLS

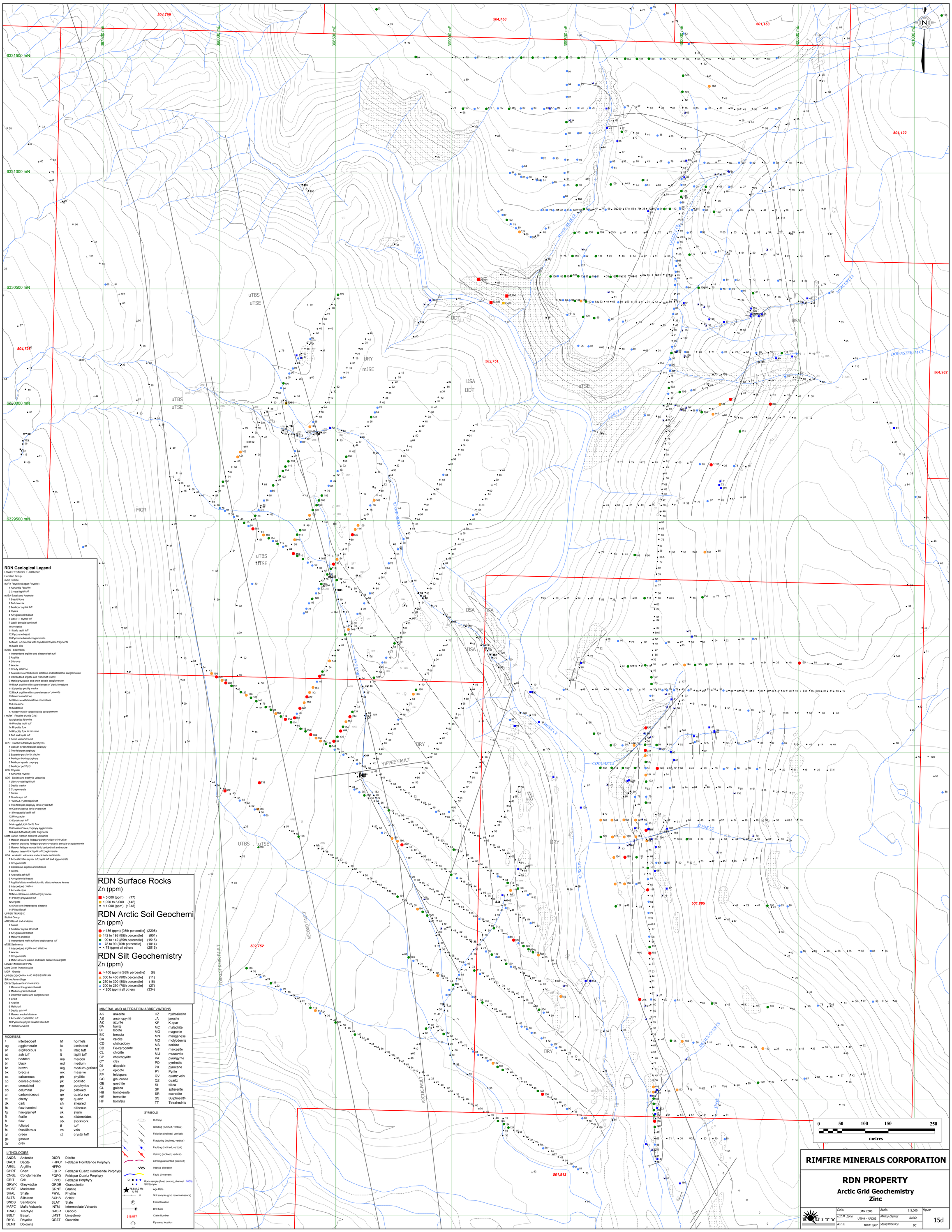
- Outcrop
- Bedding (inclined, vertical)
- Foliation (inclined, vertical)
- Fracturing (inclined, vertical)
- Faulting (inclined, vertical)
- Veining (inclined, vertical)
- Lithological contact (inferred)
- Intense alteration
- Fault, Lineament
- Rock sample (float, outcrop,channel 2005) Silt Sample
- 76.5±1.0 Ma U-Pb — Age Date
- Soil sample (grid, reconnaissance)
- Fossil location
- Drill hole
- 516,877 — Claim Number
- Fly camp location

RIMFIRE MINERALS CORPORATION

RDN PROPERTY

Arctic Grid Geochemistry
Mercury

EQUITY	Date: JAN 2006	Scale: 1:5,000		Figure
	U.T.M. Zone UTM9 - NAD83	Mining District LIARD		15c
	N.T.S. 104B15/G2	State/Province BC		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398000 mE
398500 mE
399000 mE
399500 mE
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6331000 mN
6330500 mN
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6329500 mN
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504,758
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501,895
501,812
uTBS
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IJDT
IJSA
IJRY
mJSE
MGR
MONE CK
BLACK BEAR CK
GRIZZLY CK
MERCURY CK
DOWNSTREAM CK
COUGAR CK
YIPPEE FAULT
SECOND FAULT
FORREST KERR FAULT
ARCTIC FAULT
MORE CK
SLIME CK
DEVILS CLUB CK
GROUSE
RDN Geological Legend
LOWER TO MIDDLE JURASSIC
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1 Aphanitic Rhyolite
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6 Lithic +/- crystal tuff
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11 Mafic lapilli tuff
12 Pyroxene basalt
13 Pyroxene basalt conglomerate
14 Mafic tuff-breccia with rhyodacite/rhyolite fragments
15 Mafic sills
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5 Wacke
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1 Goosan Creek feldspar porphyry
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4 Feldspar-biotite porphyry
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8 Interbedded clastics
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10 Non-calcareous siltstone/greywacke
11 Pebbly greywacke/tuff
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13 Shale with interbedded siltstone
14 Pillow Basalt
UPPER TRIASSIC
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More Creek Plutonic Suite
MGR Granite
UPPER DEVONIAN AND MISSISSIPPIAN
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DMSV Sedimentts and volcanics
1 Massive fine-grained basalt
2 Medium-grained basalt
3 Dolomitic wacke and conglomerate
4 Chert
5 Argillite
6 Mafic tuff
7 Dacitic ash tuff
8 Maroon wacke/siltstone
9 Andesitic crystal lithic tuff
10 Pyroxene-phyric basaltic lithic tuff
11 Siltstone/wacke
RDN Surface Rocks
Zn (ppm)
> 5,000 (ppm) (77)
1,000 to 5,000 (142)
< 1,000 (ppm) (1313)
RDN Arctic Soil Geochemi
Zn (ppm)
> 186 (ppm) (98th percentile) (2208)
142 to 186 (95th percentile) (901)
99 to 142 (85th percentile) (1515)
78 to 99 (70th percentile) (1014)
< 78 (ppm) all others (2516)
RDN Silt Geochemistry
Zn (ppm)
> 400 (ppm) (95th percentile) (8)
300 to 400 (90th percentile) (11)
250 to 300 (80th percentile) (16)
200 to 250 (70th percentile) (27)
< 200 (ppm) all others (334)
MINERAL AND ALTERATION ABBREVIATIONS
AK ankerite
AS arsenopyrite
AZ azurite
BA barite
BI biotite
BX breccia
CA calcite
CD chalcedony
CB Fe-carbonate
CL chlorite
CP chalcopyrite
CY clay
DI diopside
EP epidote
FP feldspars
GC glauconite
GE goethite
GL galena
HB hornblende
HE hematite
HF hornfels
HZ hydrozincite
JA jarosite
KF K-spar
MC malachite
MG magnetie
MN manganese
MO molybdenite
MS sericite
MT marcasite
MU muscovite
PA pyrargyrite
PO pyrrhotite
PX pyroxene
PY Pyrite
QV quartz vein
QZ quartz
SI silica
SP sphalerite
SR scorodite
SS Sulphosalts
TT Tetrahedrite
MODIFIERS
/ interbedded
ag agglomerate
ar argillaceous
at ash tuff
bd bedded
bl black
br brown
bx breccia
ca calcareous
cg coarse-grained
cn crenulated
col columnar
cr carbonaceous
ct cherty
dk dark
fb flow-banded
fg fine-grained
fi fissile
fl flow
fo foliated
fs fossiliferous
gr green
gs gossan
gy grey
hf hornfels
la laminated
li lithic tuff
lt lapilli tuff
ma maroon
md medium
mg medium-grained
mx massive
ph phyllitic
pk poikilitic
pp porphyritic
pw pillowed
qe quartz eye
qz quartz
sh sheared
si siliceous
sk skarn
ss slickensides
stk stockwork
tf tuff
vn vein
xt crystal tuff
LITHOLOGIES
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ARGL Argillite
CHRT Chert
CNGL Conglomerate
GRIT Grit
GRWK Greywacke
MDST Mudstone
SHAL Shale
SLTS Siltstone
SNDS Sandstone
MAFC Mafic Volcanic
TRAC Trachyte
BSLT Basalt
RHYL Rhyolite
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FHPO/ Feldspar Hornblende Porphyry
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