

Supplementary Report

for

**ARD SAMPLING
2005**

on the

**WOLVERINE DEPOSIT, YT
YUKON ZINC CORPORATION**

Sampled by

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Prepared by

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Submitted November 2005

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ALS_Sample **A 083503**

Rock Type 1
Drill Hole WV97-104
From 313.8 m
To 387.3 m
Interval Length 073.5 m
Core Size BQ
Easting 0439978 m
Northing 6811268 m

Name Aphanitic, hard, siliceous (cherty) black argillite (non-carbonaceous).

Texture Black, very fine grained to aphanitic.

Mineralogy Dominated by argillaceous grains (mud, clays, and dead organic matter) in composition with high silica content (>10%).

Structure Hard, strongly foliated (65° to core axis) with planar brakes. Multiple breaking surfaces due to multiple stress orientations give rock a crumbly to broken texture. Contains irregular bands of massive rhyolite (up to 30%), bands of mixed calcite (up to 10%), occasionally cut by discordant (across foliation) quartz and calcite veinlets (which may contain trace fine pyrite).

Alteration 10% bands of fine chlorite, 10% calcite alteration.

Mineralization Trace to weak amounts of fine pyrite (2-4%) associated with late quartz and calcite veins and veinlets.

Photo(s) Plates 1a-e.

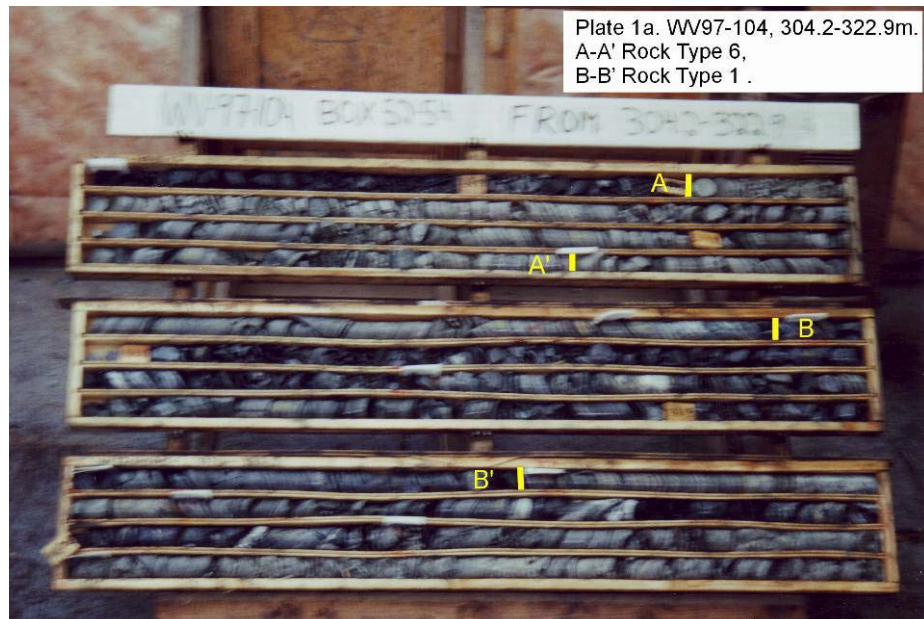


Plate 1b. WV97-104, 322.9-340.3m.
C-C' & E-E' Rock Type 6
D-D' Rock Type 1



Plate 1c. WV97-104, 340.3-354.5m.
F-F' & H-H' Rock Type 6
G-G' Rock Type 1



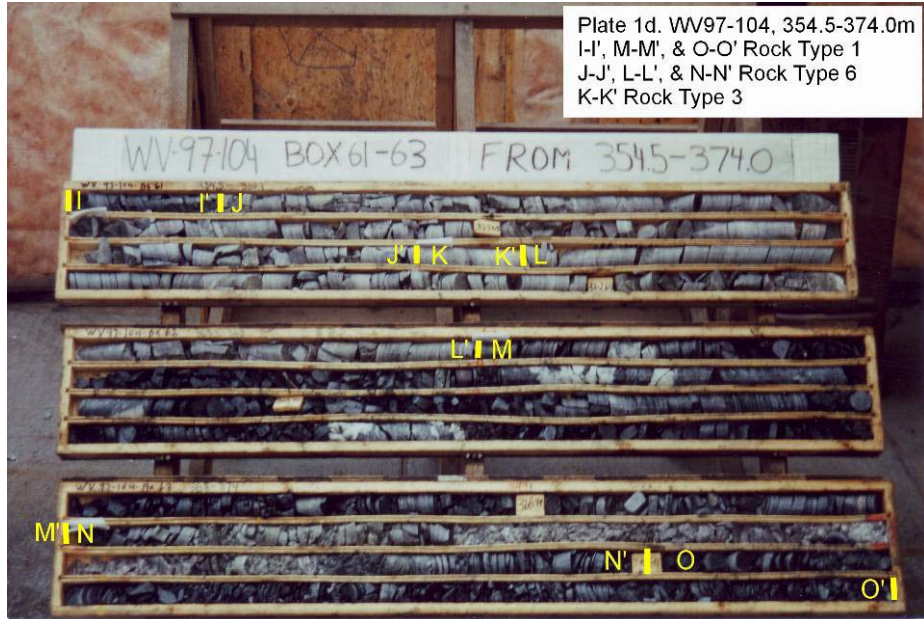


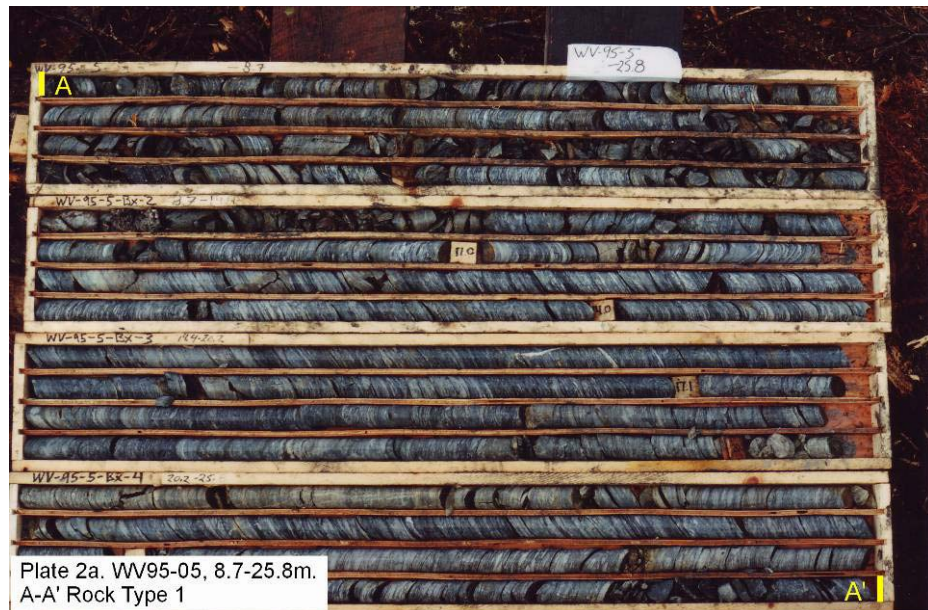
Plate 1d. WV97-104, 354.5-374.0m
 I-I', M-M', & O-O' Rock Type 1
 J-J', L-L', & N-N' Rock Type 6
 K-K' Rock Type 3



Plate 1e. WV97-104, 374.0-393.1m.
 P-P' Rock Type 1, Q-Q' Rock Type 3,
 R-R' Rock Type 6, S-S' Rock Type 2.

ALS_Sample **A 083513**

Rock Type	1
Drill Hole	WV95-05 (Similar to WV04-125)
From	00.0 m
To	30.0 m
Interval Length	30.0 m
Core Size	NQ
Easting	0440016 m
Northing	6810931 m
Name	Aphanitic, hard, siliceous (cherty) black argillite (non-carbonaceous).
Texture	Dark grey to black, laminated (1mm up to 1cm).
Mineralogy	Interbedded quartz rich mudstone & argillite.
Structure	Foliated (40°).
Alteration	Quartz veining with minor chlorite alteration.
Mineralization	Minor qtz,+pyrite bands. Trace – 1%, pyrite platting on bedding surfaces.
Photo(s)	Plate 2a-b.



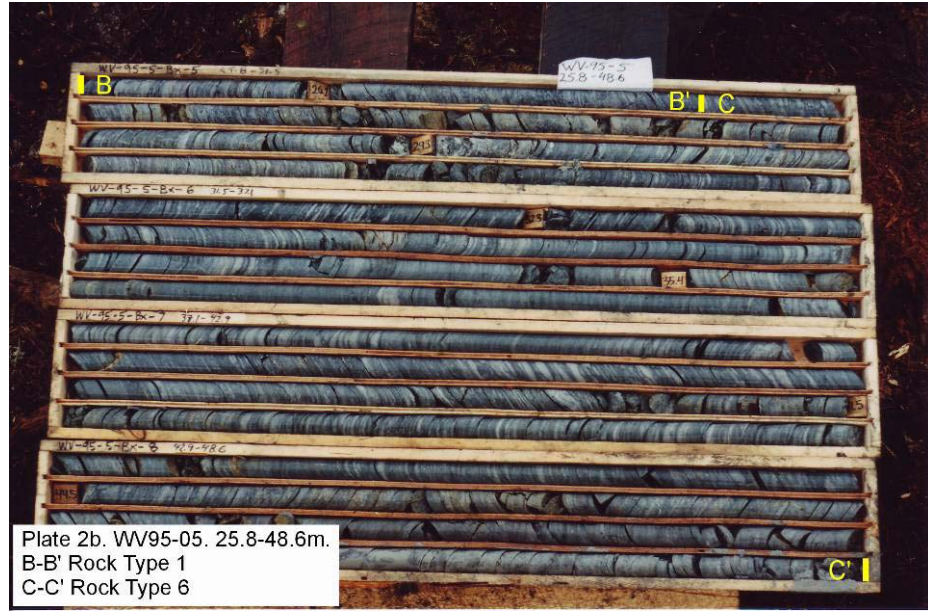


Plate 2b. WV95-05. 25.8-48.6m.
B-B' Rock Type 1
C-C' Rock Type 6

ALS_Sample A 083518

Rock Type 1
Drill Hole WV95-22
From 195.1 m
To 248.3 m
Interval Length 053.2 m
Core Size BQ
Easting 0440145 m
Northing 6810904 m

Name Aphanitic, hard, siliceous (cherty) black argillite (non-carbonaceous).

Texture Dark grey to black, very fine to aphanitic.

Mineralogy Zones weakly siliceous, contains laminations of siliceous material (possibly fragments).

Structure Foliated and broken.

Alteration Sericite-silica horizons associated with tuffaceous material (ash?) and alteration to

Mineralization Fine, <1mm, lenses of pyrite, up to 1% throughout.

Photo Plate 3a-b.



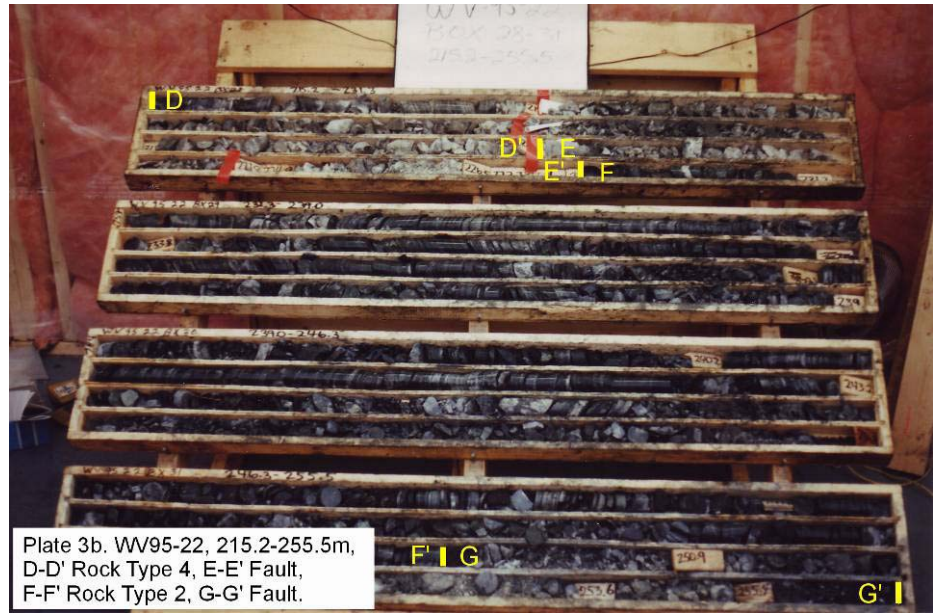


Plate 3b. WV95-22, 215.2-255.5m,
D-D' Rock Type 4, E-E' Fault,
F-F' Rock Type 2, G-G' Fault.

ALS Sample A 083526

Rock Type 1
Drill Hole WV96-54
From 055.7 m
To 162.2 m
Interval Length 106.5 m
Core Size NQ
Easting 0440036 m
Northing 6810754 m

Name Aphanitic, hard, siliceous (cherty) black argillite (non-carbonaceous).

Texture Black to dark grey, fine grained with medium grained tuffaceous material.

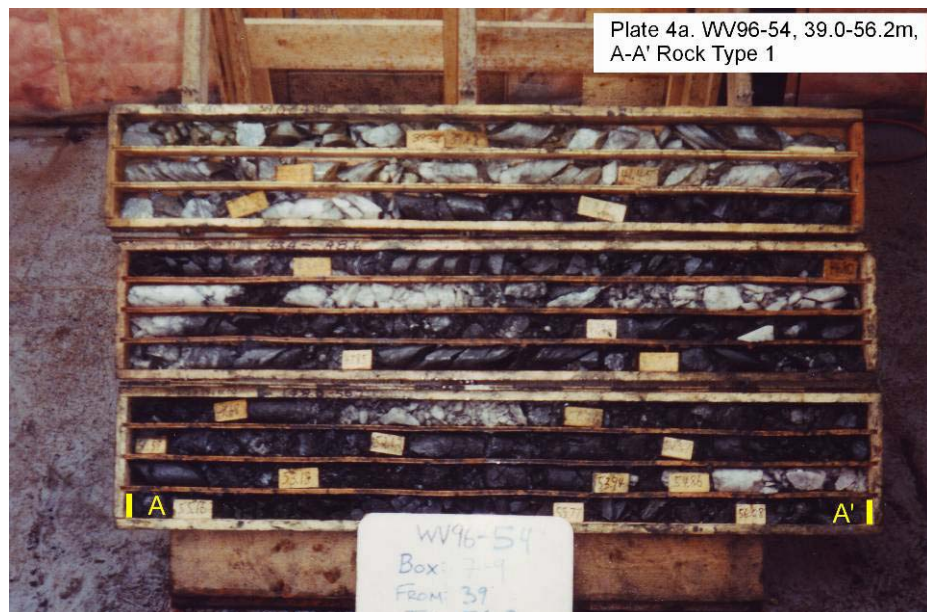
Mineralogy Dominated by argillaceous grains (mud, clays, and dead organic matter) in composition with high silica content (>10%).

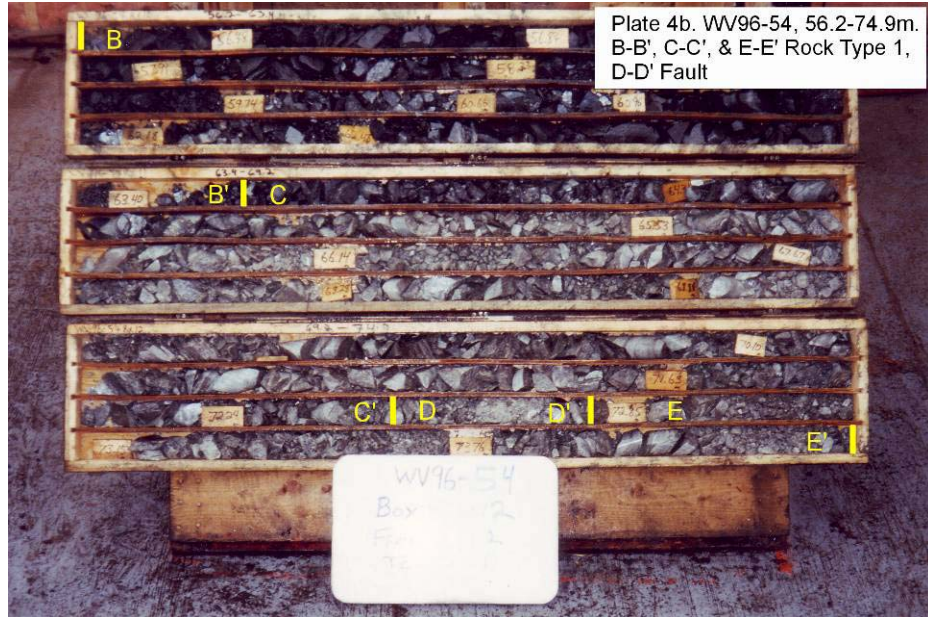
Structure Banded with <1cm aphyric grey silica bands and calcareous siltstone bands.

Alteration Weak, pervasive chlorite, sericite alteration with weak to moderate calcite alteration.

Mineralization Fine pyrite common along fractures and foliation planes.

Photo Plate 4a-h.





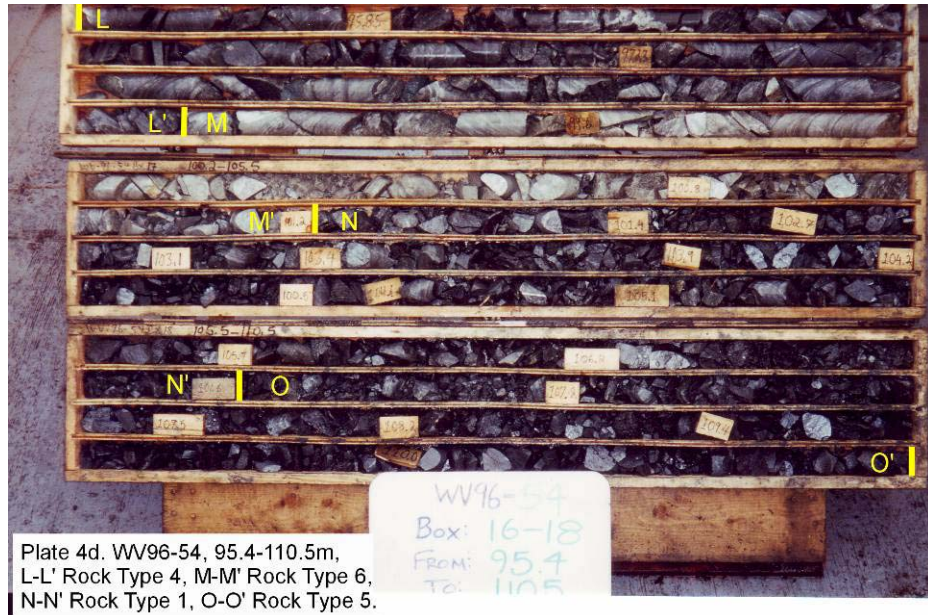


Plate 4d. WV96-54, 95.4-110.5m,
 L-L' Rock Type 4, M-M' Rock Type 6,
 N-N' Rock Type 1, O-O' Rock Type 5.



Plate 4e. WV96-54, 110.5-124.7m.
 P-P' Rock Type 3, Q-Q' Rock Type 5,
 R-R' & S-S' Rock Type 6





ALS Sample A 083529

Rock Type 1
Drill Hole WV97-99
From 52.0 m
To 87.8 m
Interval Length 35.8 m
Core Size NQ
Easting 0439798 m
Northing 6811076 m

Name Aphanitic, hard, siliceous (cherty) black argillite (non-carbonaceous).

Texture Black to grey, fine grained with medium grained tuffaceous material.

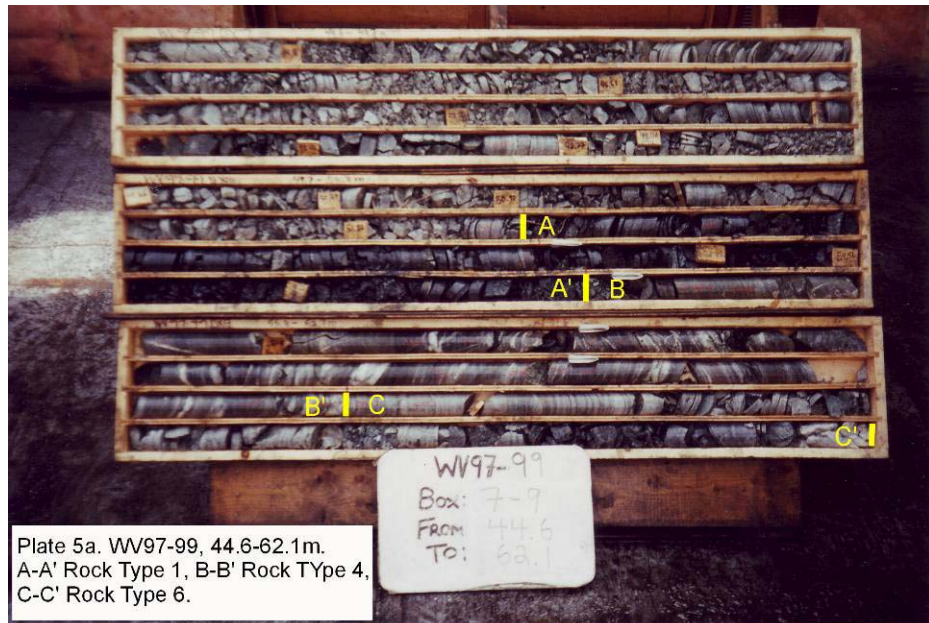
Mineralogy Dominated by argillaceous grains (mud, clays, and dead organic matter) in composition with high silica content (>10%).

Structure Strongly foliated (75° to core axis) with 10% faint 1mm-1cm siliceous bands hat occasionally cross cut foliation.

Alteration Calcite alteration forming calcite bands parallel to foliation.

Mineralization 1-2% fine pyrite bands up to 5mm thick associated with calcite.

Photo Plate 5a-b.



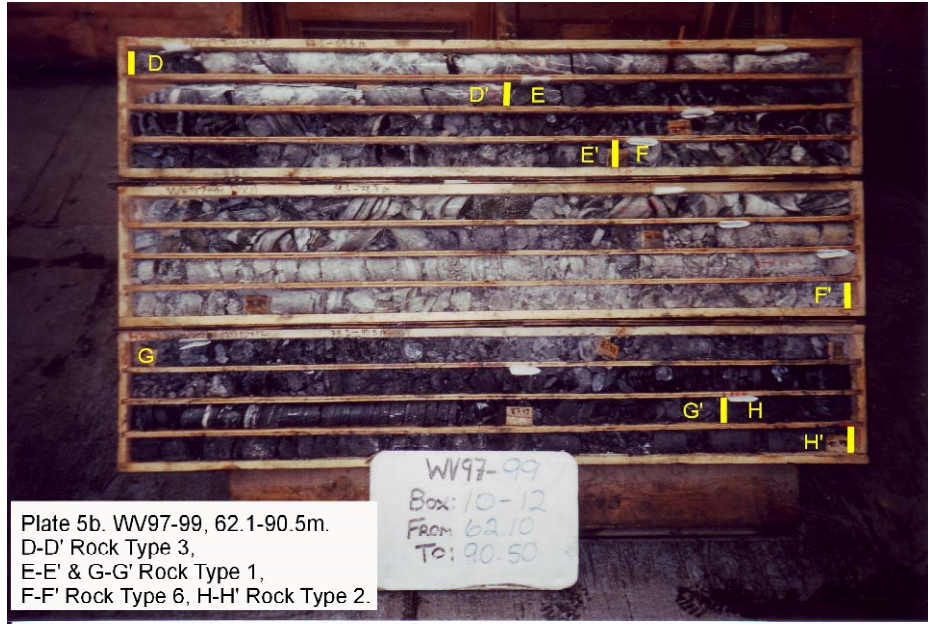


Plate 5b. WV97-99, 62.1-90.5m.
D-D' Rock Type 3,
E-E' & G-G' Rock Type 1,
F-F' Rock Type 6, H-H' Rock Type 2.

ALS Sample A 083508

Rock Type 2
Drill Hole WV96-70
From 13.0 m
To 80.4 m
Interval Length 67.4 m
Core Size NQ
Easting 0439761 m
Northing 6811110 m

Name Aphanitic, massive, carbonaceous to strongly graphitic black argillite.

Texture Black, very fine grained to aphanitic, massive.

Mineralogy Black argillite (mud and clays) with high carbon content (graphite and organic matter) and weak to moderate silica component (>10%).

Structure Silica bands parallel to foliation up to 1 cm thick.

Alteration Moderate carbonate alteration (<10% calcite).

Mineralization

Photo Plate 6a-e.



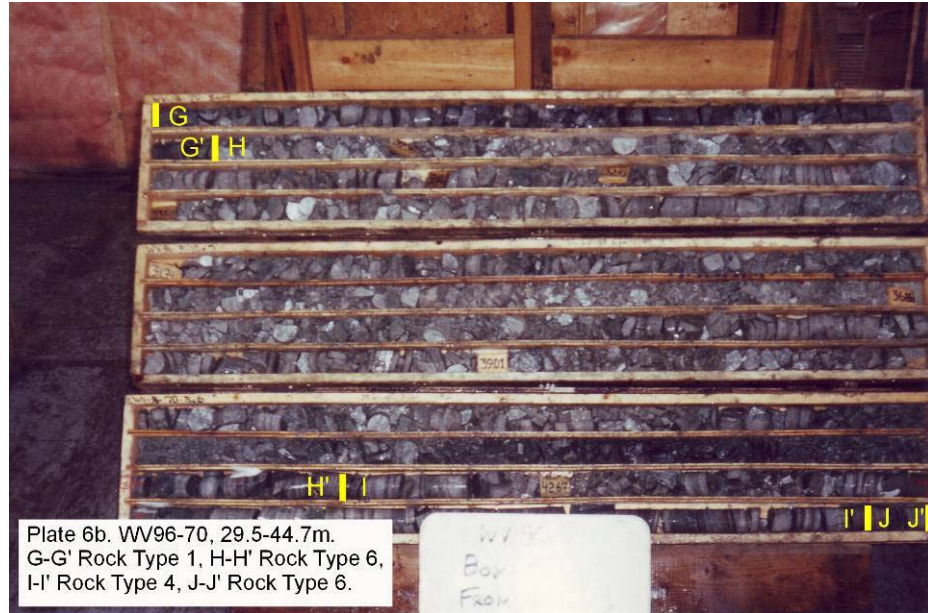


Plate 6b. WV96-70, 29.5-44.7m.
 G-G' Rock Type 1, H-H' Rock Type 6,
 I-I' Rock Type 4, J-J' Rock Type 6.

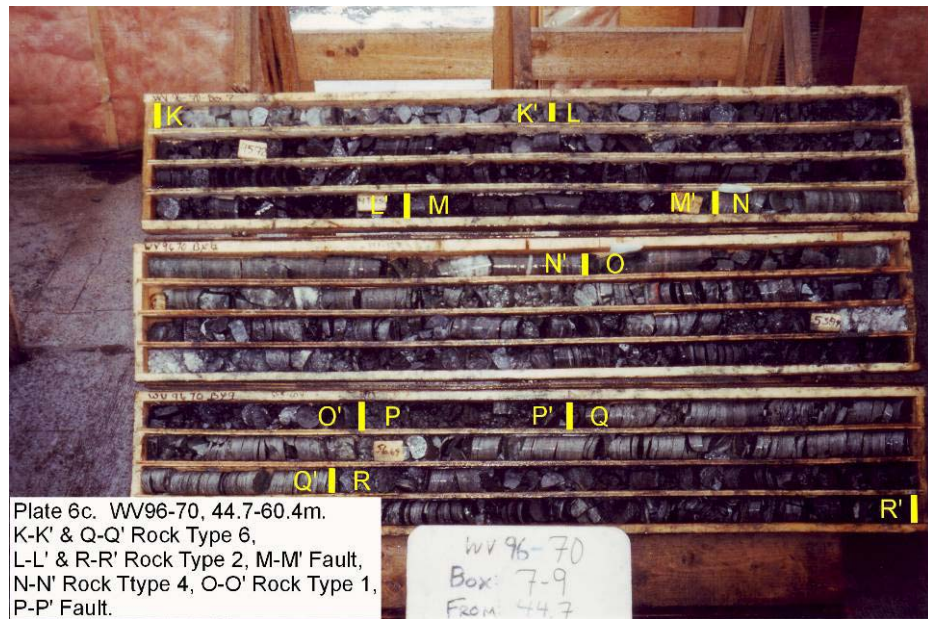


Plate 6c. WV96-70, 44.7-60.4m.
 K-K' & Q-Q' Rock Type 6,
 L-L' & R-R' Rock Type 2, M-M' Fault,
 N-N' Rock Ttype 4, O-O' Rock Type 1,
 P-P' Fault.

ALS_Sample	A 083515
Rock Type	2
Drill Hole	WV95-11
From	114.1 m
To	132.0 m
Interval Length	017.9 m
Core Size	BQ
Easting	0439957 m
Northing	6810934 m
Name	Aphanitic, massive, carbonaceous to strongly graphitic black argillite. May or may not contain significant amounts of carbonate.
Texture	Black to dark grey, aphanitic.
Mineralogy	Graphite rich (>10%).
Structure	Thinly banded with dark grey silica bands, strongly foliated with rootless and isoclinal fold structures (indicating strong deformation stresses).
Alteration	Chlorite rich (>10%).
Mineralization	Fine, braided stringer pyrite and fracture filling pyrite, 1-3%.
Photo	Plate 7a.



ALS Sample A 083528

Rock Type 2
Drill Hole WV96-56
From 070.2 m
To 165.1 m
Interval Length 094.9 m
Core Size NQ
Easting 0439895 m
Northing 6811315 m

Name Aphanitic, massive , carbonaceous to strongly graphitic black argillite. May or may not contain significant amounts of carbonate and rhyolite lapilli tuff material.

Texture Lenticular fragmental that is tightly packed in an argillaceous to silty matrix.

Mineralogy Siliceous, graphitic and calcareous .

Structure Strongly foliated.

Alteration Pale green sericite bands forming foliation planes, pervasive calcite alteration associated with weak chlorite alteration.

Mineralization Trace fine pyrrhotite throughout.

Photo Plate 8a-f.



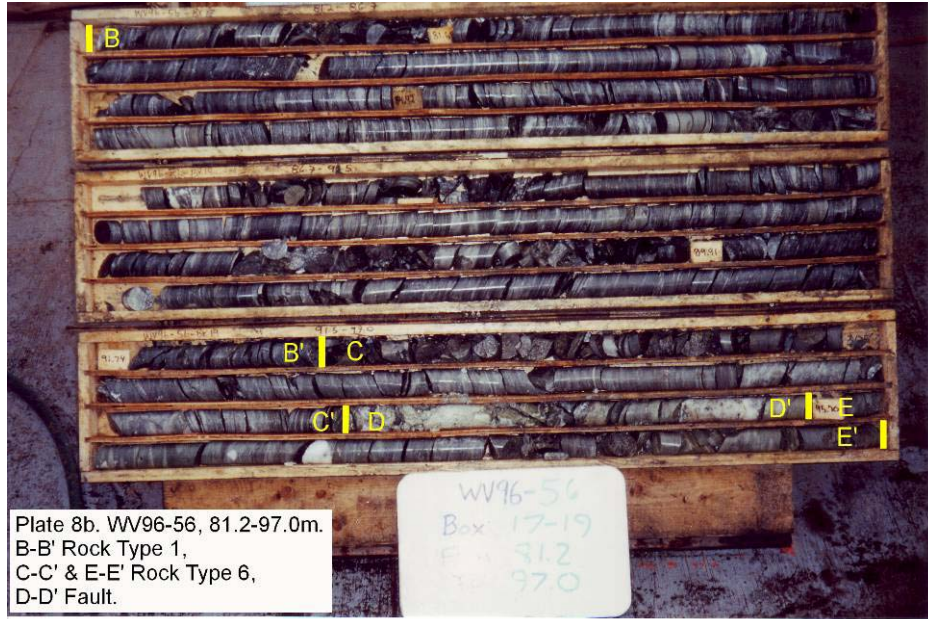


Plate 8b. WV96-56, 81.2-97.0m.
 B-B' Rock Type 1,
 C-C' & E-E' Rock Type 6,
 D-D' Fault.

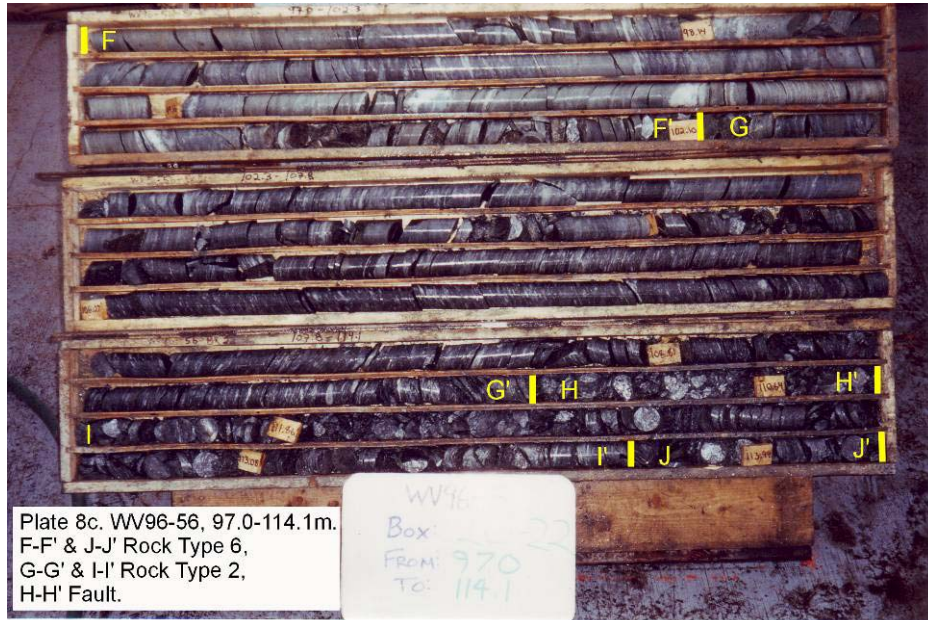


Plate 8c. WV96-56, 97.0-114.1m.
 F-F' & J-J' Rock Type 6,
 G-G' & I-I' Rock Type 2,
 H-H' Fault.



Plate 8d. WV96-56, 114.1-130.6m.
K-K' & M-M' Rock Type 6,
L-L' Fault.



Plate 8e. WV96-56, 130.6-145.1m.
N-N' Rock Type 6.



Plate 8f. WV96-56, 145.1-161.4m.
O-O' Rock Type 6,
P-P' Rock Type 1.

WV96-56
Box: 24-26
FROM: 145.1
TO: 161.4

ALS Sample A 083531

Rock Type 2
Drill Hole WV05-134
From 091.9 m
To 151.6 m
Interval Length 059.7 m
Core Size NQ
Easting 0439958 m
Northing 6810939 m

Name Aphanitic, massive, carbonaceous to strongly graphitic black argillite. May or may not contain significant amounts of carbonate and rhyolite lapilli tuff material.

Texture Black, fine grained to granular.

Mineralogy 15-20% graphite, 30-40% argillite.

Structure Thinly laminated (<1 mm) and foliated (35° to core axis).

Alteration Weak carbonate (calcite) alteration with short local zones up to 30%, weak silica alteration.

Mineralization 1-2% fine pyrite in fractures associated with chlorite.

Photo Plate 9a-c.





Plate 9b. WV05-134, 93.4-128.2m.
F-F', G-G', & I-I' Rock Type 2,
H-H' & K-K' Rock Type 1,
J-J', L-L' & N-N' Rock Type 5, and
M-M' Rock Type 6.



Plate 9c. WV05-134, 128.2-151.9m.
O-O' Rock Type 5,
P-P' & Q-Q' Rock Type 4,
R-R' Rock Type 3, S-S' Rock Type 1,
T-T' Rock Type 2.

ALS Sample A 083510

Rock Type 3
Drill Hole WV95-08
From 20.0 m
To 30.0 m
Interval Length 10.0 m
Core Size BQ
Easting 0439957 m
Northing 6810934 m

Name Grey to white, banded calcite-pyrite exhalite.

Texture Grey to white, fine grained.

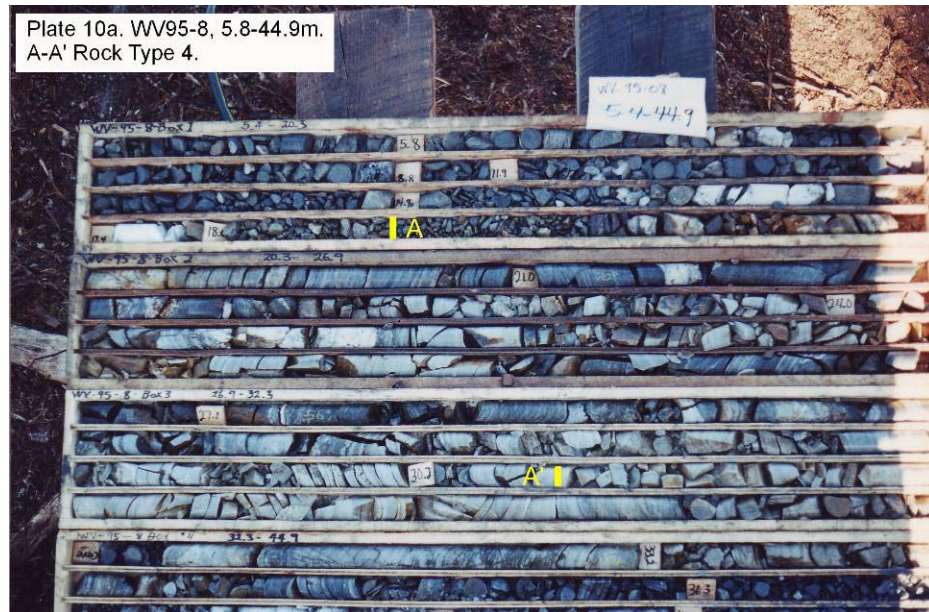
Mineralogy Dominated by calcite + silica with sericite partings. Contains up to 30% fine grained pyrite within a matrix of white calcite, both occurring as cm scale bands and swirls.

Structure Banded calcite and pyrite.

Alteration Moderate chlorite associated with massive banded to weak magnetite (15-30%), and moderate calcite and silica alteration.

Mineralization Minor cubic pyrite and trace sphalerite, to 30% fine grained pyrite.

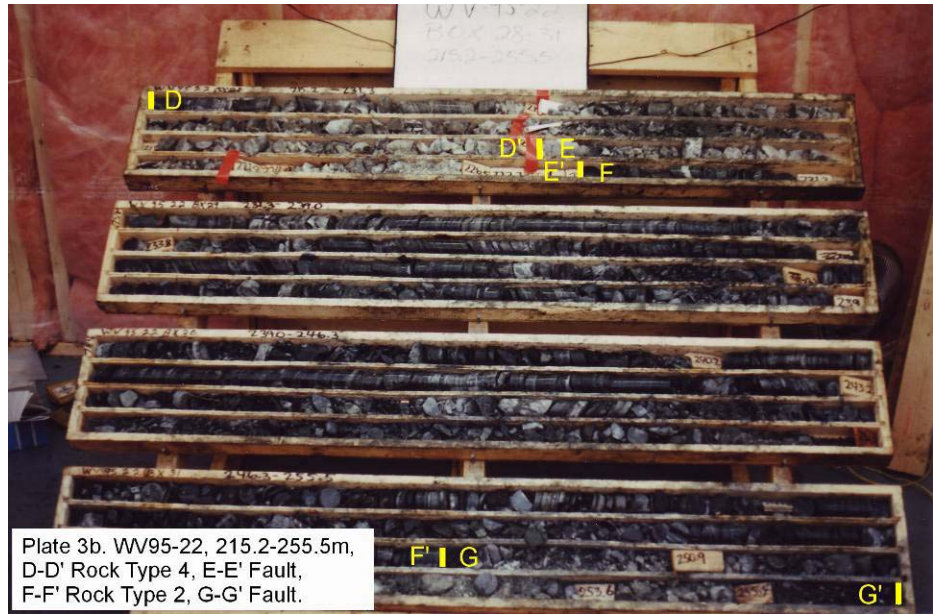
Photo Plate 10a.



ALS Sample A 083519

Rock Type	3
Drill Hole	WV95-22
From	215.8 m
To	279.9 m
Interval Length	064.1 m
Core Size	BQ
Easting	0440145 m
Northing	6810904 m
Name	Grey to white, banded calcite-pyrite exhalite.
Texture	White to grey, very fine to aphanitic.
Mineralogy	Mainly composed of calcite and silica, distinctive unit containing fine grained pyrite within a matrix of white calcite.
Structure	Banded silica and calcite with laminations/bands of fine pyrite.
Alteration	Quartz-calcite veins cross-cutting unit and weak sericite alteration.
Mineralization	Abundant pyrite as fine bands, net textured masses, and cross-cutting stringers.
Photo	Plate 3a-b, & 11a.





ALS Sample A 083524

Rock Type 3
Drill Hole WV96-54 (Similar to WV05-168)
From 110.5 m
To 129.9 m
Interval Length 019.4 m
Core Size NQ
Easting 0440036 m
Northing 6810754 m

Name Beige to grey, banded calcite-pyrite exhalite.

Texture Beige to grey, fine grained.

Mineralogy 5-10% quartz, 70-80% calcite.

Structure Foliated (58° to core axis).

Alteration Weak chlorite alteration.

Mineralization Weak bands of red sphalerite and disseminated pyrite (2-3%).

Photo Plate 4e-f.





ALS Sample A 083530

Rock Type 3
Drill Hole WV97-102
From 300.8 m
To 315.0 m
Interval Length 014.2 m
Core Size NQ
Easting 0439836 m
Northing 6811491 m

Name White to blue, banded calcite-pyrite exhalite.

Texture White to blue, very fine grained, massive to mottled.

Mineralogy 3-15% pyrite, 70-80% calcite.

Structure Foliated (58° to core axis).

Alteration Weak chlorite alteration.

Mineralization Stringer, disseminated and massive pyrite, 3-15%.

Photo Plate 12a-b.

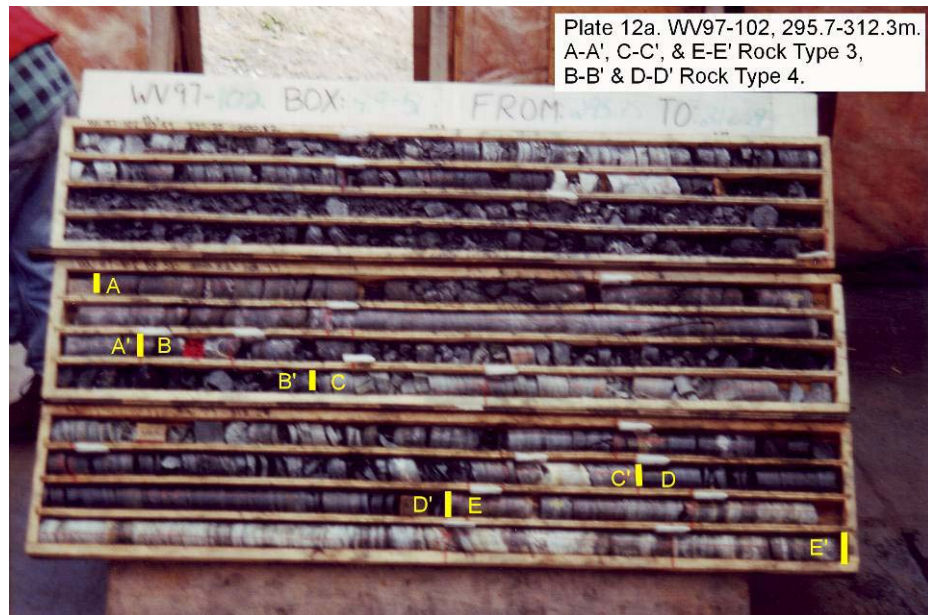
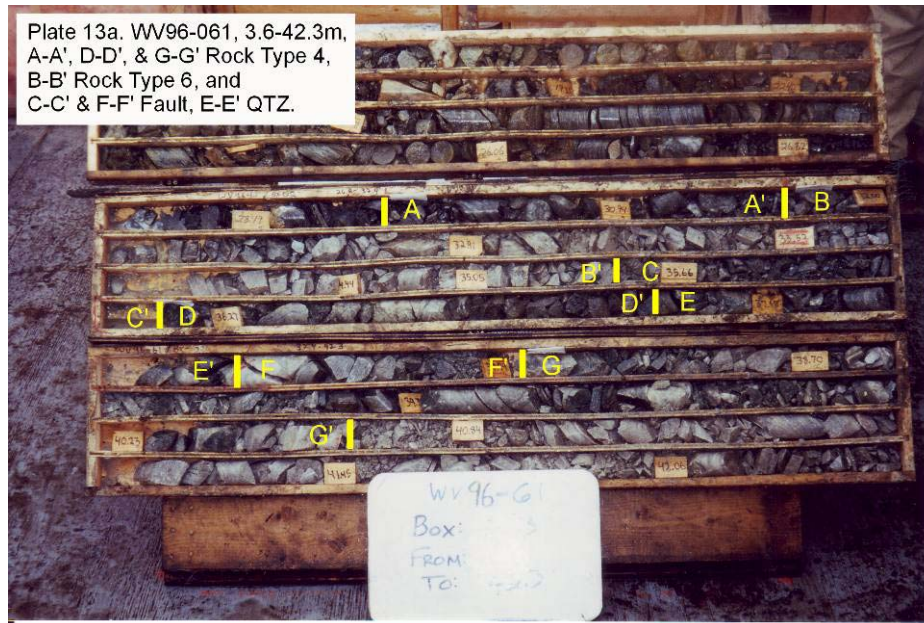


Plate 12b. WV97-102, 312.3-321.1m,
F-F' Rock Type 3.



ALS Sample A 083504

Rock Type	4
Drill Hole	WV96-61
From	28.5 m
To	40.6 m
Interval Length	12.1 m
Core Size	NQ
Easting	0439766 m
Northing	6811211 m
Name	Magnetite Iron Formations and Silica-Pyrite Exhalite.
Texture	Black, white, and magnetic.
Mineralogy	40-60% fine grained, banded magnetite (bands weak, 0.5-2cm, grains <1mm), with in a silica, 25% and chlorite 5% matrix.
Structure	Foliated (54° to core axis).
Alteration	Strong calcite alteration, moderate to strong chlorite alteration (10%) associated with pyrite and magnetite.
Mineralization	10% porphyroblastic pyrite (0.2-0.5mm).
Photo	Plate 13a.



ALS Sample A 083509

Rock Type 4
Drill Hole WV96-70
From 42.1 m
To 51.9 m
Interval Length 09.8 m
Core Size NQ
Easting 0439761 m
Northing 6811110 m

Name Magnetite Iron Formations and Silica-Pyrite Exhalite.

Texture White and green, fine to medium grained.

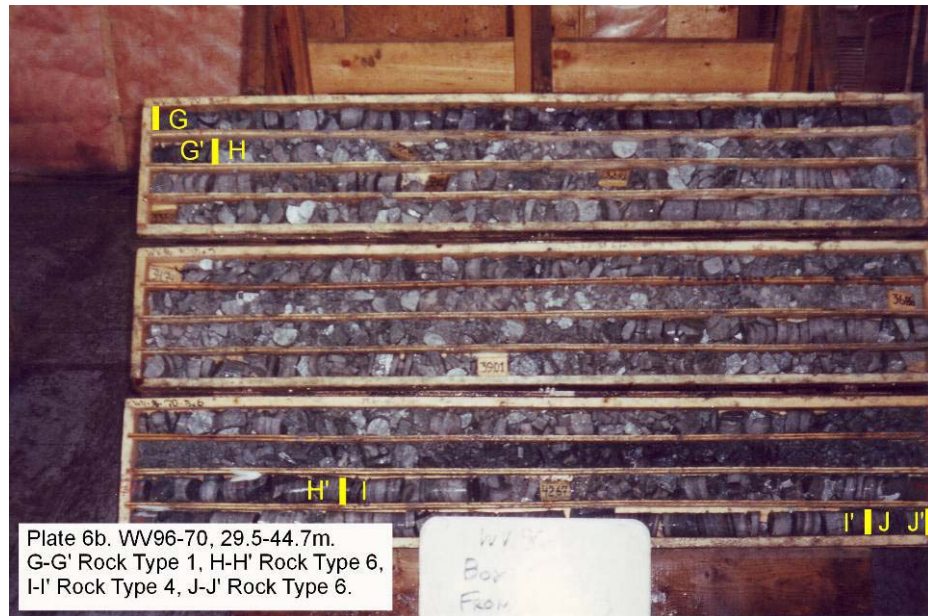
Mineralogy Siliceous with chloritic intervals up to 10 cm, 25% fine grained magnetite, disseminated and banded (1-5 mm).

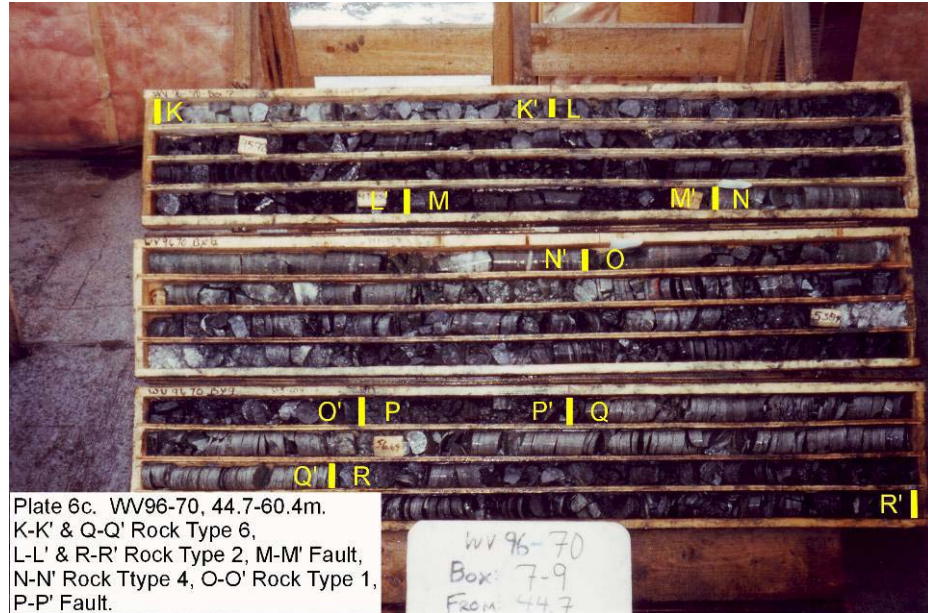
Structure Moderately banded.

Alteration Bands of strong chlorite alteration.

Mineralization Trace disseminated pyrite.

Photo Plate 6b-c.





ALS Sample A 083517

Rock Type 4
Drill Hole WV95-11
From 39.0 m
To 63.4 m
Interval Length 24.4 m
Core Size BQ
Easting 0439957 m
Northing 6810934 m

Name Magnetite Iron Formations and Silica-Pyrite Exhalite.

Texture Grey to green, fine grained.

Mineralogy 30-40% silica, >50% magnetite (0.5-1 mm crystals)

Structure Massive to weakly banded.

Alteration Minor sericite and chlorite (7%) alteration along foliation surfaces.

Mineralization 3% cubic pyrite up to 10 mm, 1% pyrrhotite, trace sphalerite

Photo Plate 14a-b.





ALS Sample A 083523

Rock Type 4
Drill Hole WV95-20
From 169.1 m
To 211.9 m
Interval Length 042.8 m
Core Size NQ
Easting 0439994 m
Northing 6811105 m

Name Magnetite Iron Formations and Silica-Pyrite Exhalite.

Texture Grey green, very fine grained to aphanitic.

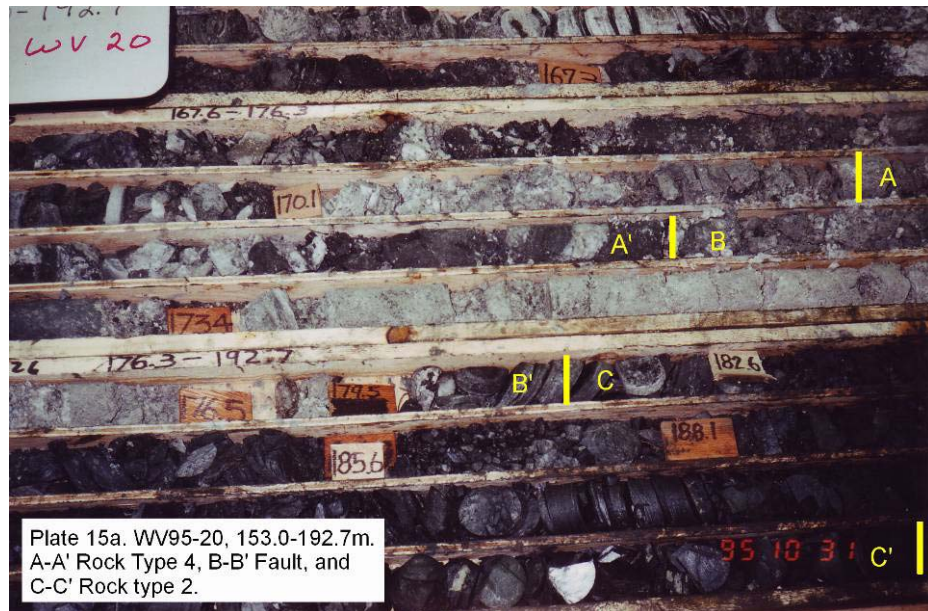
Mineralogy Magnetite horizon (<10% magnetite, 1-2mm) in a very siliceous rock (>50% silica)

Structure Rubbly clay-quartz bands.

Alteration Moderate sericite + chlorite alteration

Mineralization

Photo Plate 15a-b.



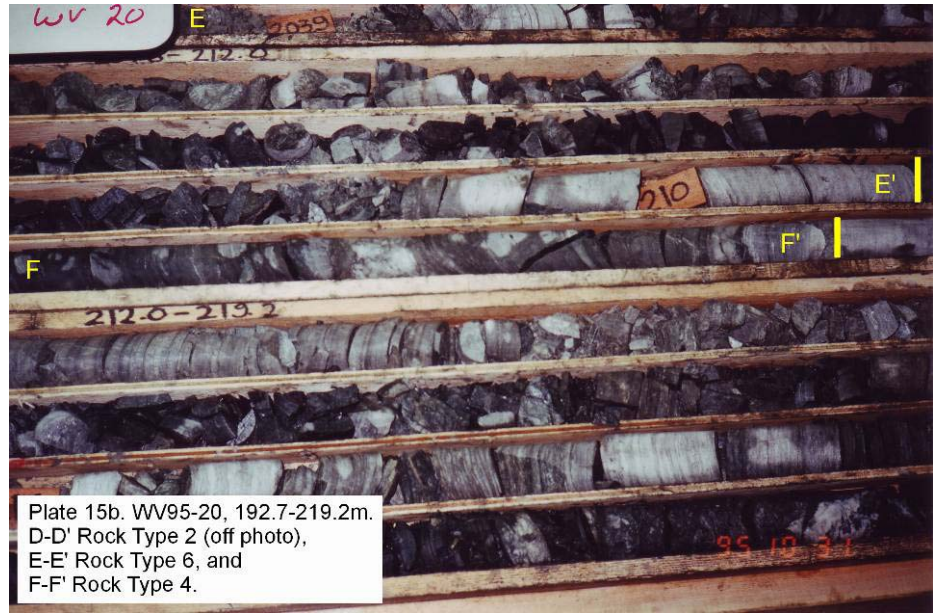


Plate 15b. WV95-20, 192.7-219.2m.
D-D' Rock Type 2 (off photo),
E-E' Rock Type 6, and
F-F' Rock Type 4.

ALS Sample A 083525

Rock Type 4
Drill Hole WV96-54
From 09.9 m
To 95.4 m
Interval Length 85.5 m
Core Size HQ/NQ
Easting 0440036 m
Northing 6810754 m

Name Magnetite Iron Formations and Silica-Pyrite Exhalite.

Texture Greenish-grey, very fine grained to aphanitic.

Mineralogy 30-40% silica, >50% magnetite (0.5-1 mm crystals).

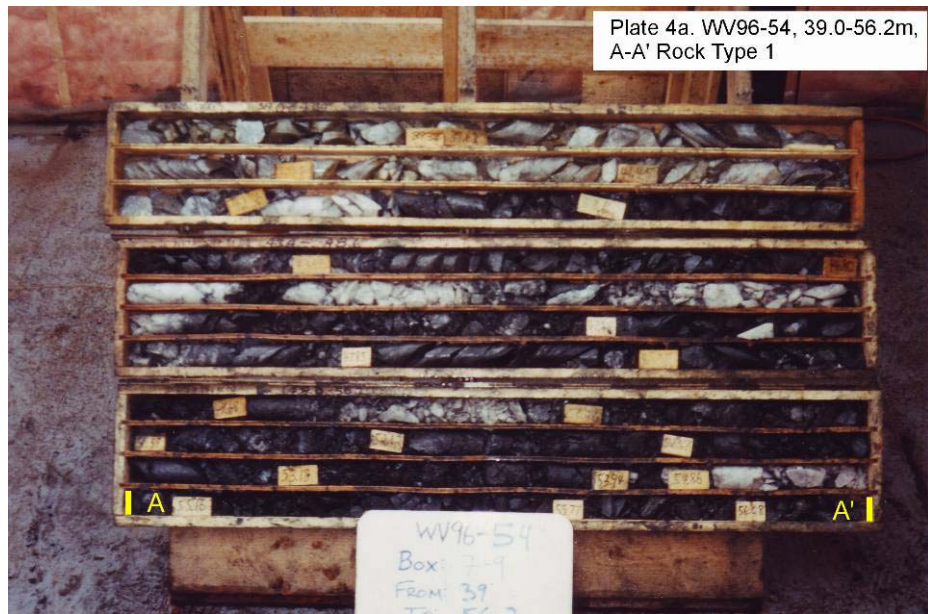
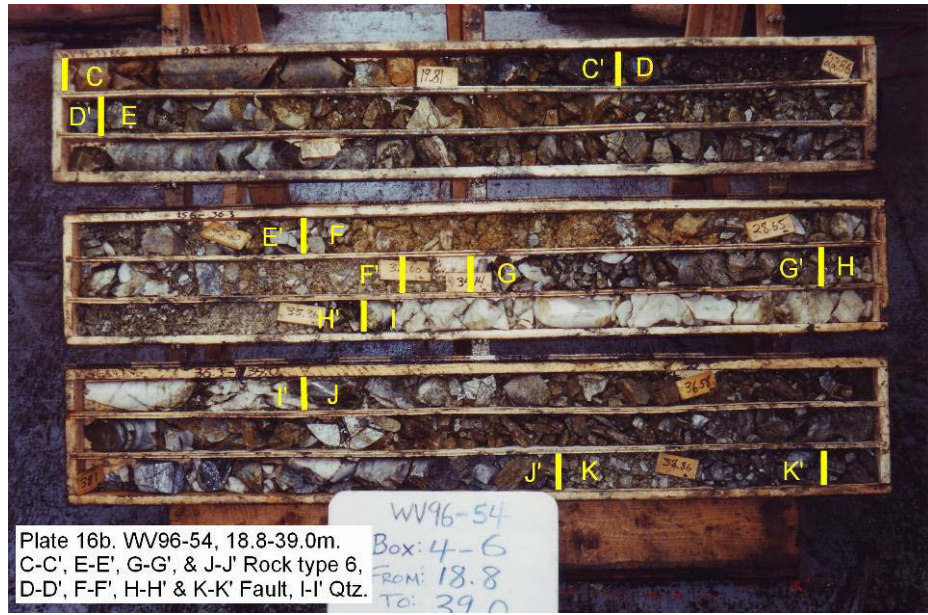
Structure Banded to strongly disseminated magnetite, interrupted by silica banding (1cm->10cm).

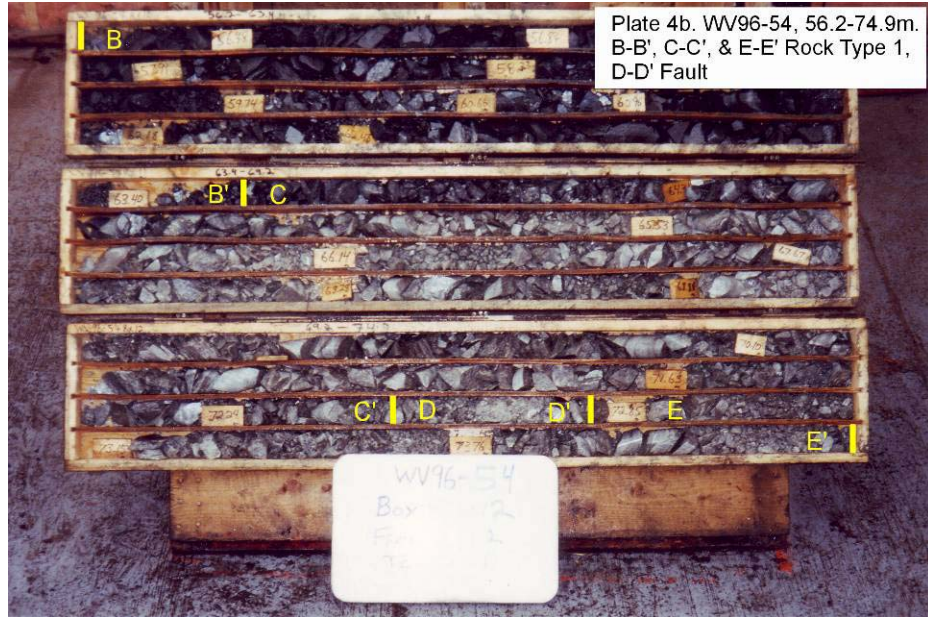
Alteration Strongly oxidized, weak to moderate sericite + chlorite alteration, moderate carbonatization.

Mineralization Scattered fine-medium grained, euhedral, pyrite associated with magnetite bands.

Photo Plate 16a-b & 4a-c.







ALS Sample A 083505

Rock Type 5
Drill Hole WV96-61
From 46.7 m
To 135.3 m
Interval Length 088.6 m
Core Size NQ
Easting 0439766 m
Northing 6811211 m

Name Intimately interbedded black argillite (carbonaceous, siliceous, tuffaceous) and massive to tuffaceous rhyolite. Ranges from cm scale interbeds to mm scale argillite bands within massive rhyolite.

Texture Grey and dark grey/black, very fine grained to aphanitic.

Mineralogy Locally calcareous, silica bands up to 10 cm.

Structure Strongly foliated with thin lenses/bands of aphyric silica and siliceous black argillite.

Alteration Weak chlorite and sericite alteration.

Mineralization Fine grained pyrite along foliation.

Photo Plate 17a-f.





Plate 17d. WV96-61, 92.5-109.0m.
 M-M' & S-S' Rock Type 5,
 N-N' Rock Type 3,
 O-O' & R-R' Rock Type 6,
 P-P' Rock Type 5, Q-Q' Fault.

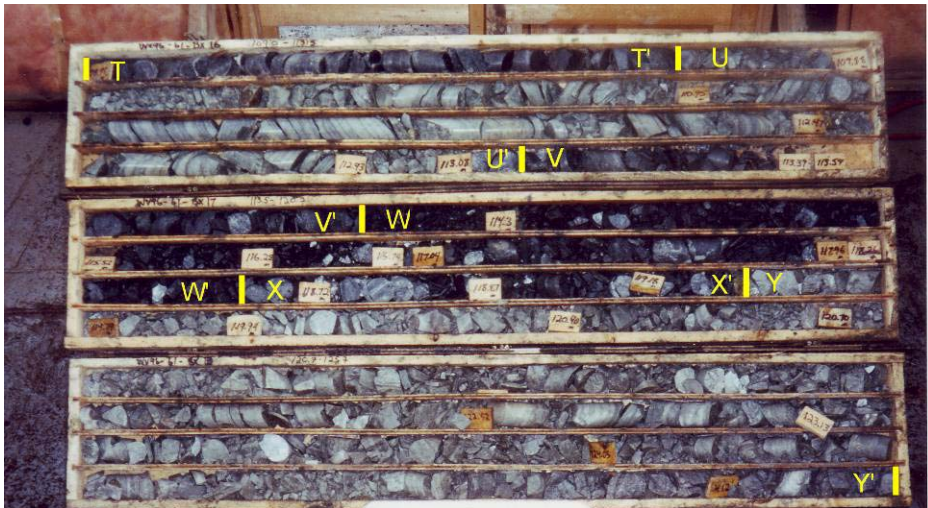
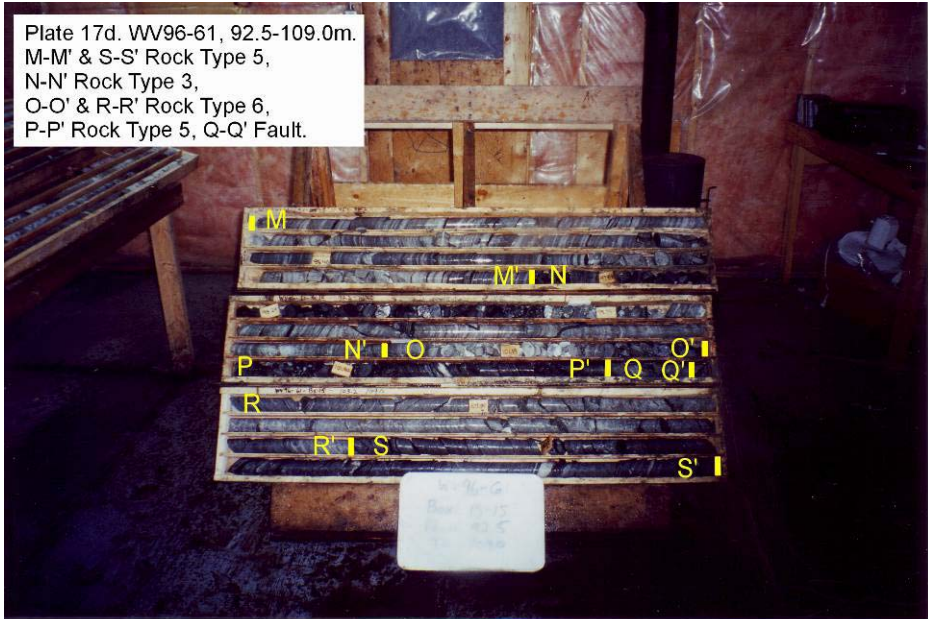


Plate 17e. WV96-61, 109.0-125.7m.
 T-T', V-V' Rock Type 5,
 U-U' & Y-Y' Rock Type 6,
 W-W' Fault, X-X' Rock Type 1.

WV96-61
 Box: 16-18
 From: 109.0
 To: 125.7

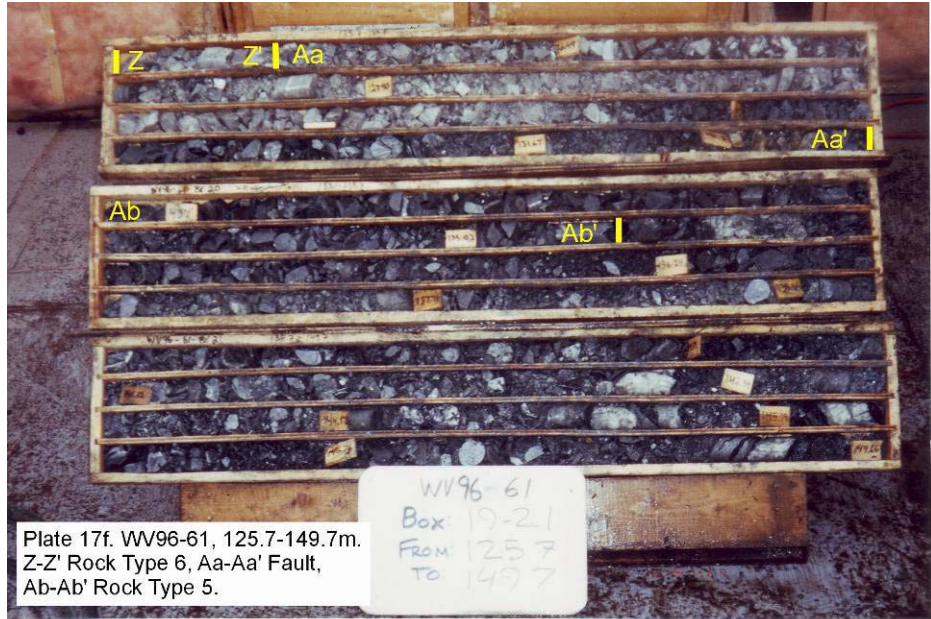


Plate 17f. WV96-61, 125.7-149.7m.
Z-Z' Rock Type 6, Aa-Aa' Fault,
Ab-Ab' Rock Type 5.

ALS Sample A 083507

Rock Type 5
Drill Hole WV96-65
From 27.9 m
To 75.9 m
Interval Length 48.0 m
Core Size NQ
Easting 0439675 m
Northing 6811253 m

Name Intimately interbedded black argillite (carbonaceous, siliceous, tuffaceous) and massive to tuffaceous rhyolite. Ranges from cm scale interbeds to mm scale argillite bands within massive rhyolite.

Texture Predominantly black, fine grained to aphanitic.

Mineralogy Siliceous argillite and aphyric rhyolite bands.

Structure Lensoidal, banded to interbedded argillite and rhyolite.

Alteration Moderate sericite + chlorite alteration with weak calcite.

Mineralization Fine disseminated pyrite, 1-5%.

Photo Plate 18a-d.





Plate 18b. WV96-65, 35.0-51.1m. D-D' & E-E' Rock Type 6, and F-F' Rock Type 5.

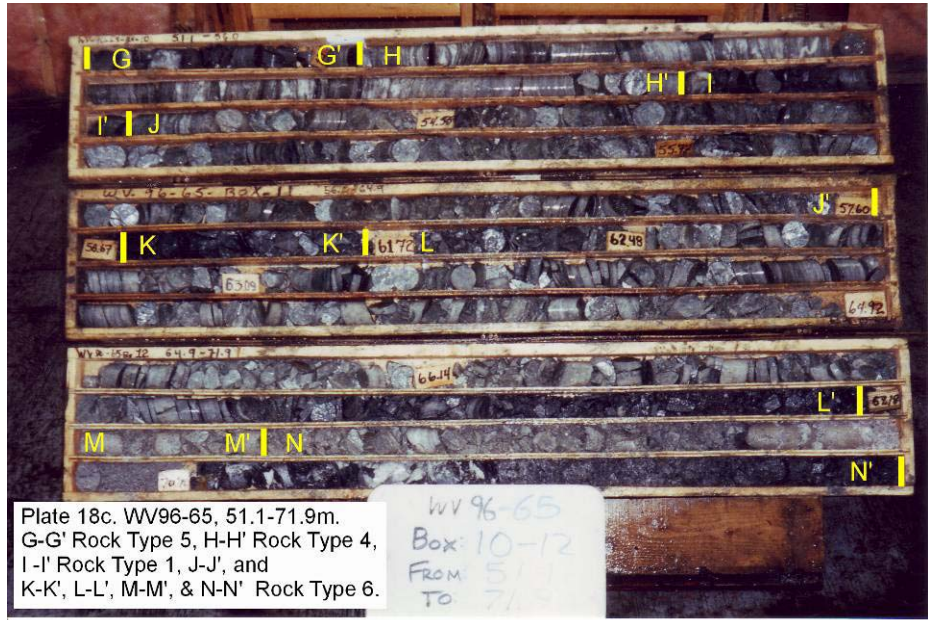
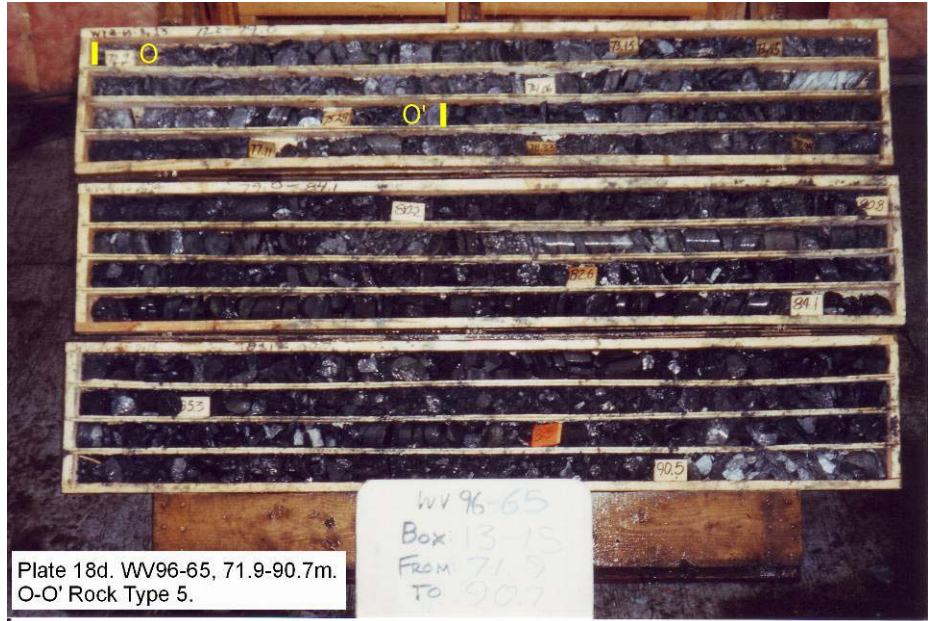


Plate 18c. WV96-65, 51.1-71.9m. G-G' Rock Type 5, H-H' Rock Type 4, I-I' Rock Type 1, J-J', and K-K', L-L', M-M', & N-N' Rock Type 6.



ALS Sample A 083511

Rock Type 5
Drill Hole WV95-08
From 30.0 m
To 60.0 m
Interval Length 30.0 m
Core Size BQ
Easting 0439957 m
Northing 6810934 m

Name Intimately interbedded black argillite (carbonaceous, siliceous, tuffaceous) and massive to tuffaceous rhyolite. Ranges from cm scale interbeds to mm scale argillite bands within massive rhyolite.

Texture Dark grey and black, fine grain to aphanitic.

Mineralogy White high silica bands (10-20%, 0.5-3 cm) in a carbonaceous argillite matrix.

Structure Foliated and banded.

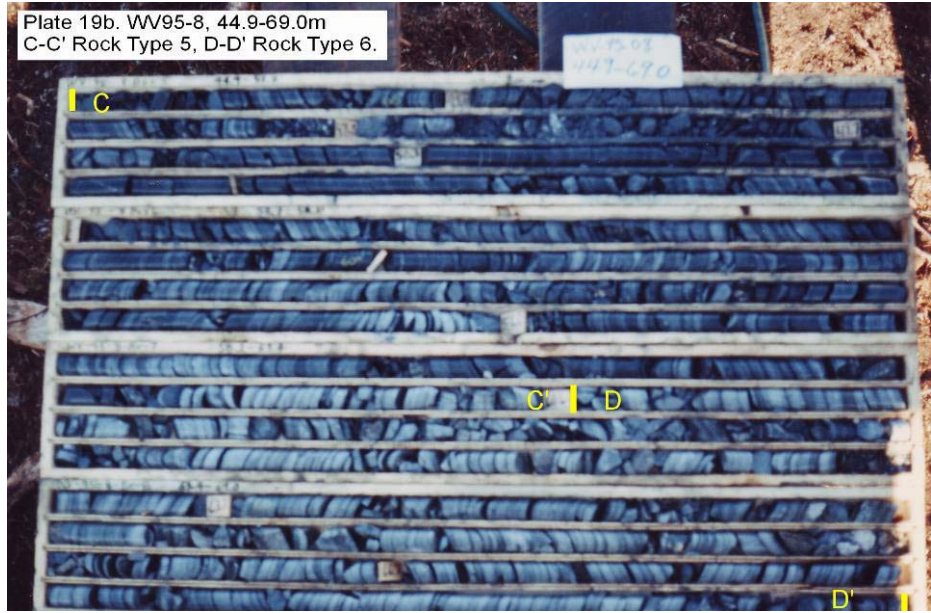
Alteration Weak sericite.

Mineralization Weak pyrite along fractures and as lenses in argillite.

Photo Plate 19a-b.



Plate 19b. WV95-8, 44.9-69.0m
C-C' Rock Type 5, D-D' Rock Type 6.



ALS Sample A 083520

Rock Type 5
Drill Hole WV95-22
From 208.5 m
To 310.3 m
Interval Length 101.8 m
Core Size BQ
Easting 0440145 m
Northing 6810904 m

Name Intimately interbedded black argillite (carbonaceous, siliceous, tuffaceous) and massive to tuffaceous rhyolite. Ranges from cm scale interbeds to mm scale argillite bands within massive rhyolite.

Texture Green-grey, very fine to medium grained.

Mineralogy \leq 1% quartz eyes, abundant small fragments of silica + calcite ($>$ 2mm).

Structure Schistose.

Alteration Silica + calcite replacing feldspar crystals, moderate sericite and chlorite alteration.

Mineralization Pyrite stringers cut foliation and disseminated along foliation.

Photo Plate 3a-b, 11a, & 20a.



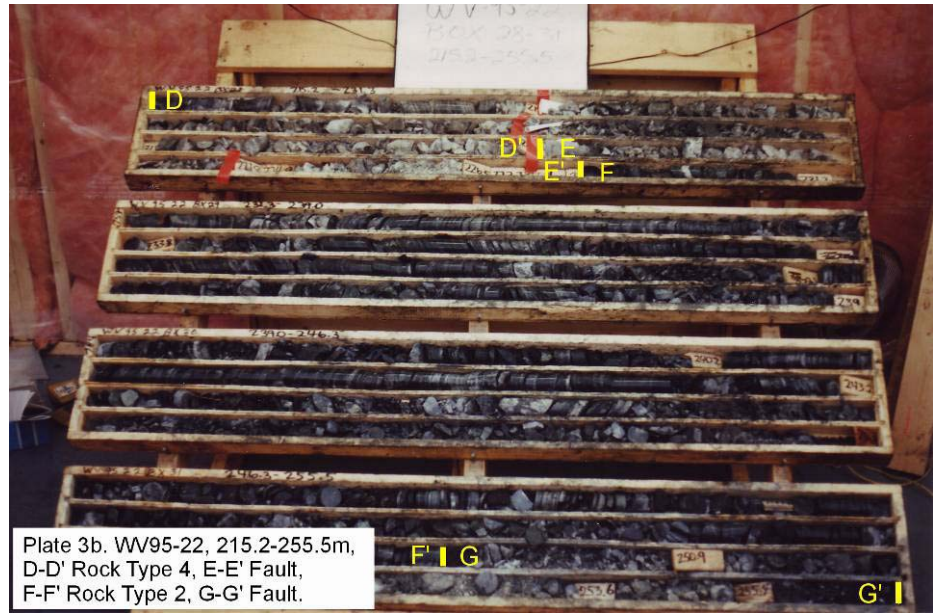
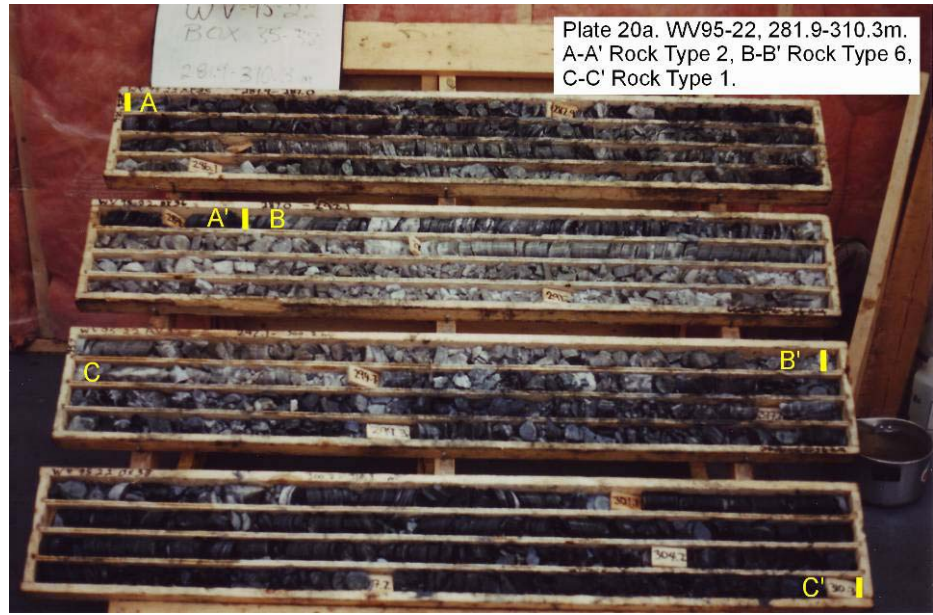


Plate 3b. WV95-22, 215.2-255.5m,
D-D' Rock Type 4, E-E' Fault,
F-F' Rock Type 2, G-G' Fault.



Plate 11a. WV95-22, 225.5-281.9
A-A' Fault, B-B' Rock Type 4,
C-C' Rock Type 3.



ALS Sample A 083506

Rock Type 6
Drill Hole WV96-64
From 05.1 m
To 36.4 m
Interval Length 31.3 m
Core Size NQ
Easting 0439782 m
Northing 6811416 m

Name Rhyolite and rhyolite fragmentals. Grey rhyolite with distinctive fragmental texture defined by wispy sub mm dark green to black anastomosing sericitic bands separating cm size felsic "fragments". Fragments are typically sub angular and irregularly shaped with jagged boundaries.

Texture Medium to dark grey.

Mineralogy Siliceous aphyric fragments (2mm to 2-3cm) in argillaceous matrix.

Structure

Alteration

Mineralization Trace fine pyrite.

Photo Plate 21a-b.





Plate 21b. WV96-64, 18.1-35.2m.
C-C' & D-D' Rock Type 6,

ALS Sample A 083521

Rock Type 6
Drill Hole WV95-20
From 37.8 m
To 47.5 m
Interval Length 09.7 m
Core Size NQ
Easting 0439994 m
Northing 6811105 m

Name Rhyolite and rhyolite fragmentals. Grey rhyolite with distinctive fragmental texture defined by wispy sub mm dark green to black anastomosing sericitic bands separating cm size felsic "fragments". Fragments are typically sub angular and irregularly shaped with jagged boundaries.

Texture Light green and fine grained.

Mineralogy Chloritic lapilli fragments, (1.5 cm, 20%) in dark argillaceous component (>50%).

Structure Foliated (65° to core axis).

Alteration Moderate sericite alteration.

Mineralization

Photo Plate 22a.



ALS Sample A 083527

Rock Type 6
Drill Hole WV96-56
From 04.0 m
To 49.2 m
Interval Length 45.2 m
Core Size HQ/NQ
Easting 0439895 m
Northing 6811315 m

Name Rhyolite and rhyolite fragmentals. Grey rhyolite with distinctive fragmental texture defined by wispy sub mm dark green to black anastomosing sericitic bands separating cm size felsic "fragments". Fragments are typically sub angular and irregularly shaped with jagged boundaries.

Texture Green and tuffaceous.

Mineralogy Calcite rich matrix.

Structure

Alteration

Mineralization

Photo Plate 23a-d.







Plate 23d. WV96-56, 44.8-49.8m.
E-E' Rock Type 6.

WV96-56
Box: 11-13
FROM: 498
TO: 499

ALS Sample A 083501

Rock Type 6
Drill Hole WV97-104
From 07.2 m
To 48.0 m
Interval Length 40.8 m
Core Size NQ
Easting 0439978 m
Northing 6811268 m

Name Rhyolite and rhyolite fragmentals. Grey rhyolite with distinctive fragmental texture defined by wispy sub mm dark green to black anastomosing sericitic bands separating cm size felsic "fragments". Fragments are typically sub angular and irregularly shaped with jagged boundaries.

Texture Light grey to black, fine to medium grained, tuffaceous to fragmental.

Mineralogy Siliceous.

Structure Interbedded with 20-50% black, carbonaceous argillite.

Alteration Weak calcite alteration with minor quartz veins (0.5-1cm, 2-3%).

Mineralization

Photo Plate 24a-c.

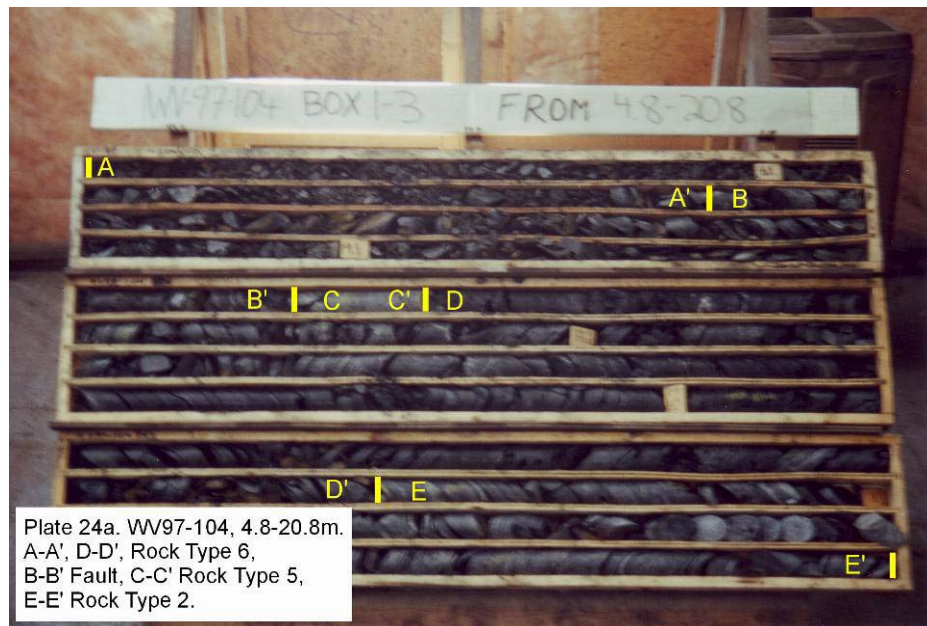
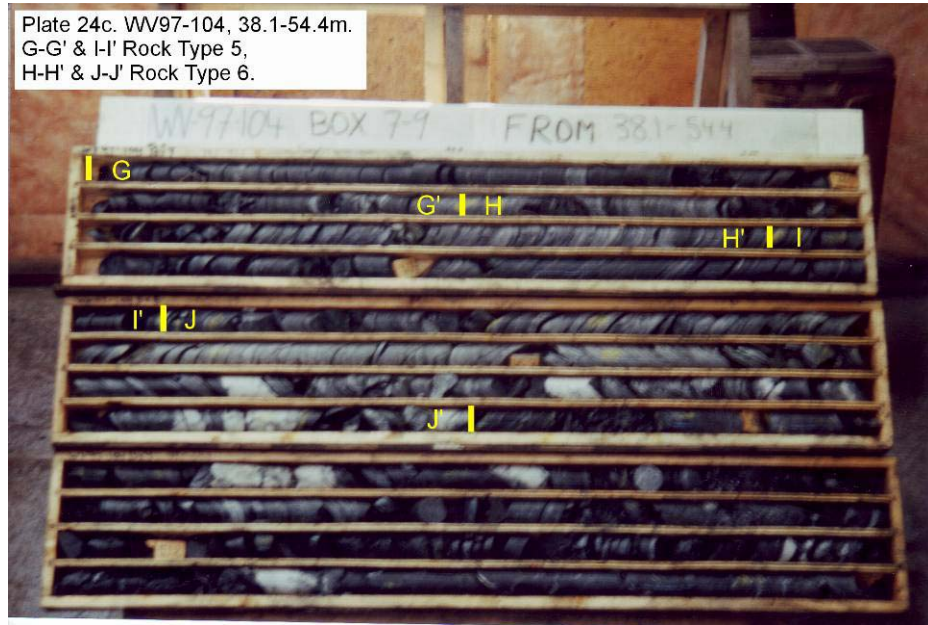


Plate 24b. WV97-104, 20.8-38.1m.
F-F' Rock Type 6.



Plate 24c. WV97-104, 38.1-54.4m.
G-G' & I-I' Rock Type 5,
H-H' & J-J' Rock Type 6.



ALS Sample A 083502

Rock Type 6
Drill Hole WV97-104
From 320.5 m
To 372.1 m
Interval Length 051.6 m
Core Size BQ
Easting 0439978 m
Northing 6811268 m

Name Rhyolite and rhyolite fragmentals. Grey rhyolite with distinctive fragmental texture defined by wispy sub mm dark green to black anastomosing sericitic bands separating cm size felsic "fragments". Fragments are typically sub angular and irregularly shaped with jagged boundaries.

Texture Grey-green, tuffaceous.

Mineralogy Siliceous lapilli (10-20%, 0.5-1.5 cm).

Structure Schistose, occasionally banded with thin black argillite bands.

Alteration Moderate to strong sericite alteration of lapilli grains.

Mineralization

Photo Plate 1a-e.



Plate 1b. WV97-104, 322.9-340.3m.
C-C' & E-E' Rock Type 6
D-D' Rock Type 1



Plate 1c. WV97-104, 340.3-354.5m.
F-F' & H-H' Rock Type 6
G-G' Rock Type 1



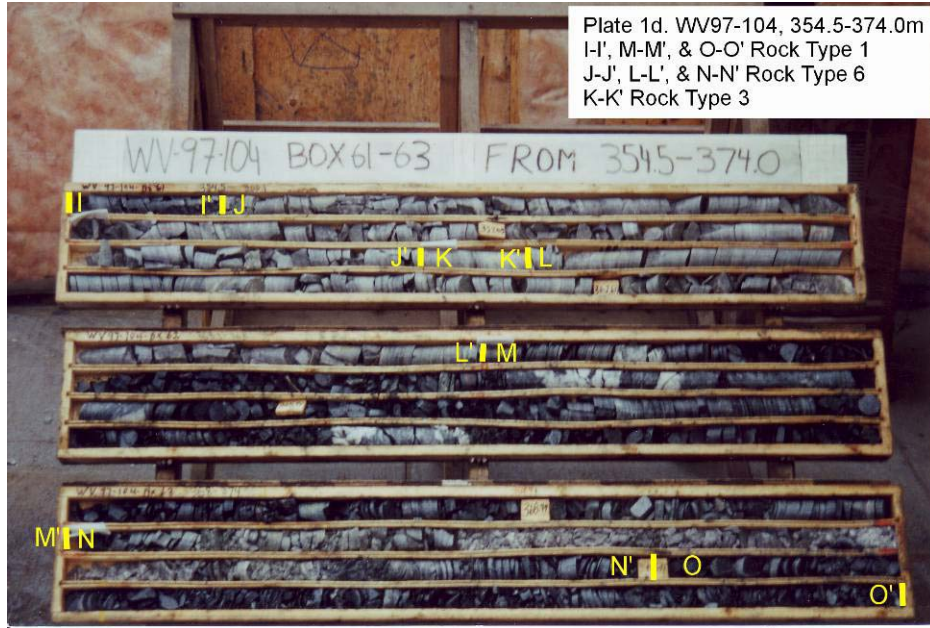


Plate 1d. WV97-104, 354.5-374.0m
 I-I', M-M', & O-O' Rock Type 1
 J-J', L-L', & N-N' Rock Type 6
 K-K' Rock Type 3



Plate 1e. WV97-104, 374.0-393.1m.
 P-P' Rock Type 1, Q-Q' Rock Type 3,
 R-R' Rock Type 6, S-S' Rock Type 2.

ALS Sample A 083512

Rock Type 6
Drill Hole WV95-08
From 60.0 m
To 75.0 m
Interval Length 15.0 m
Core Size BQ
Easting 0439957 m
Northing 6810934 m

Name Rhyolite and rhyolite fragmentals. Grey rhyolite with distinctive fragmental texture defined by wispy sub mm dark green to black anastomosing sericitic bands separating cm size felsic "fragments". Fragments are typically sub angular and irregularly shaped with jagged boundaries.

Texture Pale grey and green.

Mineralogy Bands of aphyric rhyolite (with fine microlites).

Structure 1-3 cm grey aphanitic rhyolite bands and 1-3 cm green sericite bands.

Alteration Strong sericite and weak chlorite.

Mineralization Weak disseminated pyrite and magnetite, trace sphalerite.

Photo Plate 19b & 25a.

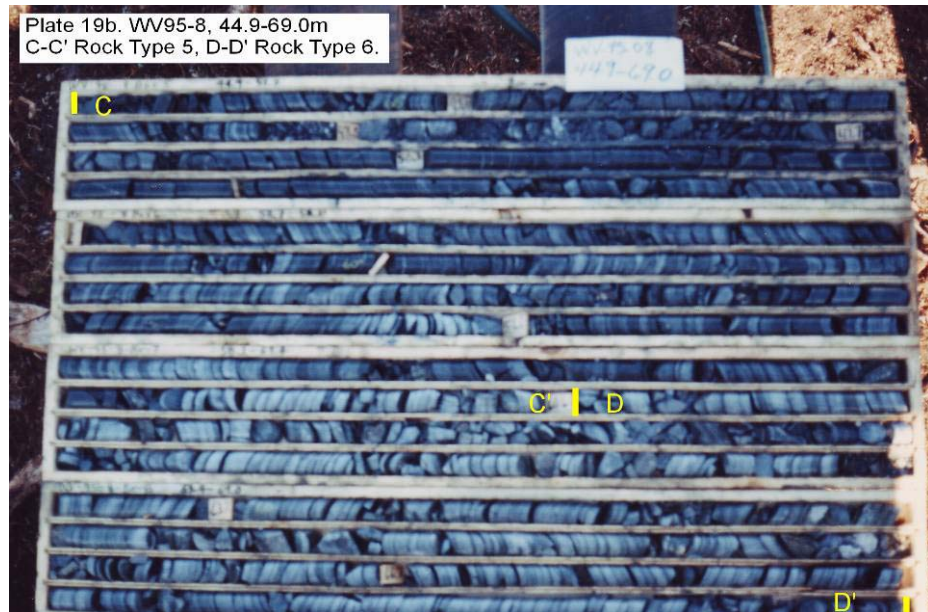
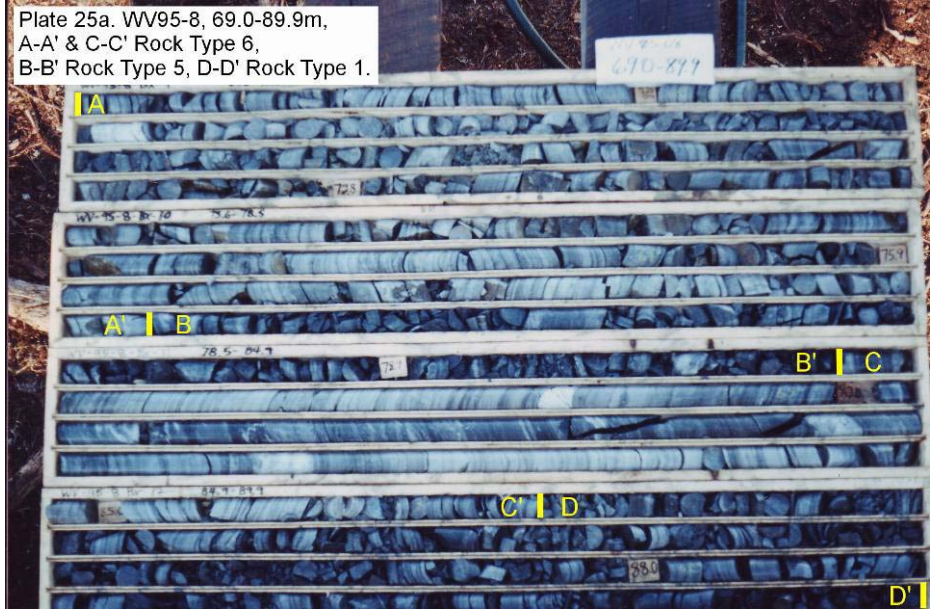


Plate 25a. WV95-8, 69.0-89.9m,
A-A' & C-C' Rock Type 6,
B-B' Rock Type 5, D-D' Rock Type 1.



ALS Sample A 083514

Rock Type 6
Drill Hole WV95-05
From 32.0 m
To 70.0 m
Interval Length 38.0 m
Core Size NQ
Easting 0440016 m
Northing 6810931 m

Name **Rhyolite and rhyolite fragmentals**
Grey rhyolite with distinctive fragmental texture defined by wispy sub mm dark green to black anastomosing sericitic bands separating cm size felsic "fragments".
Fragments are typically sub angular and irregularly shaped with jagged boundaries.

Texture Pale green.

Mineralogy Lensoidal rhyolite (0.3-2 cm) fragments, calcareous in a sericite rich matrix.

Structure Banded and fragmental.

Alteration Weak to moderate sericite in matrix.

Mineralization Minor disseminated and cubic pyrite.

Photo Plate 2b & 26a.

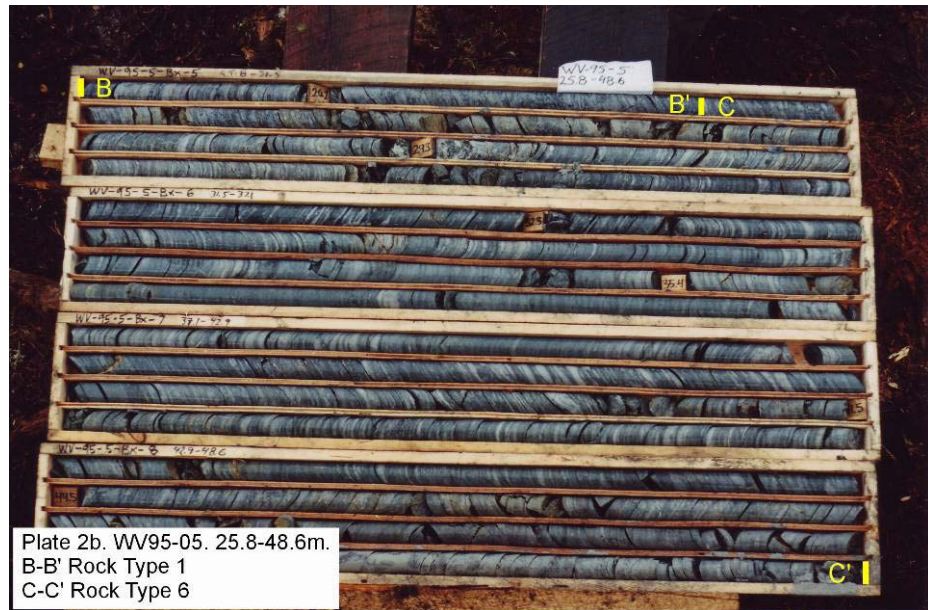
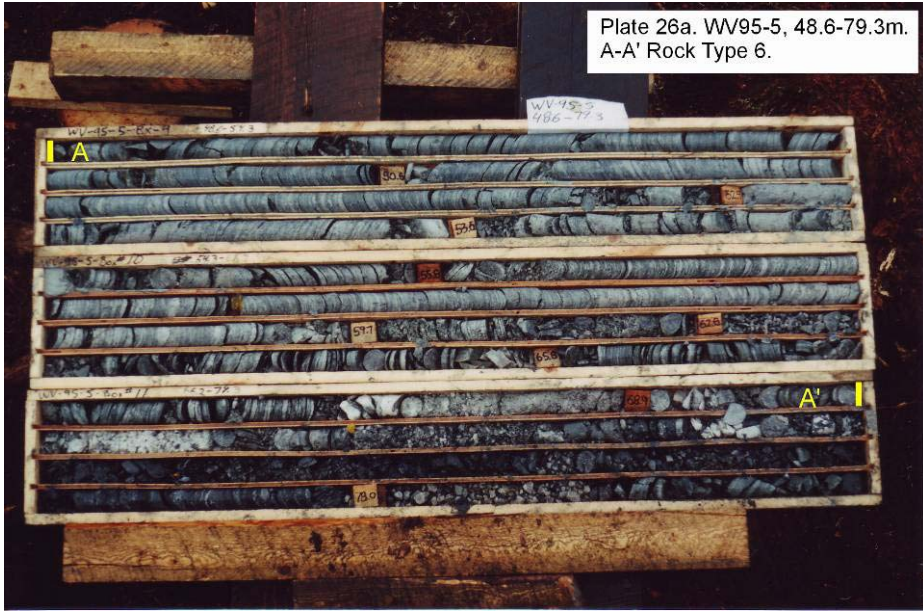


Plate 26a. WV95-5, 48.6-79.3m.
A-A' Rock Type 6.



ALS Sample A 083516

Rock Type 6
Drill Hole WV95-11
From 200.0 m
To 214.3 m
Interval Length 014.3 m
Core Size BQ
Easting 0439957 m
Northing 6810934 m

Name Rhyolite and rhyolite fragmentals. Grey rhyolite with distinctive fragmental texture defined by wispy sub mm dark green to black anastomosing sericitic bands separating cm size felsic "fragments". Fragments are typically sub angular and irregularly shaped with jagged boundaries.

Texture Light grey, fine grained to aphanitic to weakly feldspar phyric.

Mineralogy Feldspar crystals.

Structure Weakly layered to schistose.

Alteration Fragments and crystals weakly chlorite altered.

Mineralization

Photo Plate 27a.



ALS Sample A 083522

Rock Type 6
Drill Hole WV95-20
From 152.1 m
To 248.8 m
Interval Length 096.7 m
Core Size NQ
Easting 0439994 m
Northing 6811105 m

Name Rhyolite and rhyolite fragmentals. Grey rhyolite with distinctive fragmental texture defined by wispy sub mm dark green to black anastomosing sericitic bands separating cm size felsic "fragments". Fragments are typically sub angular and irregularly shaped with jagged boundaries.

Texture Light grey, fragments 1-2 cm long, 0.5 cm thick

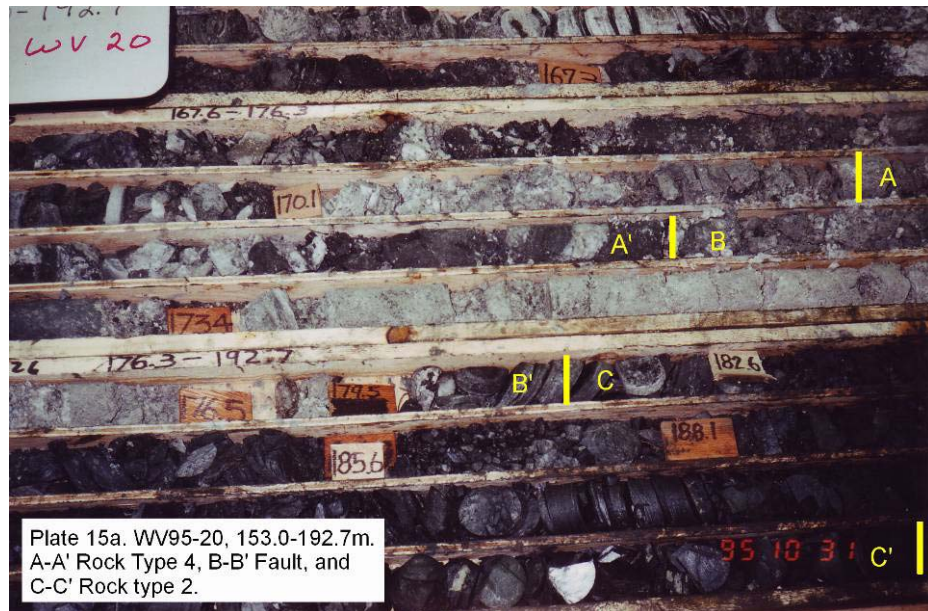
Mineralogy Fragments felsic in a matrix of quartz and calcite with 5-10% fine biotite and 10-15% sericite.

Structure Strongly foliated (55-60° to core axis).

Alteration Strong sericite alteration on foliation planes.

Mineralization 1% fine pyrite along fracture surfaces.

Photo Plate 15a-b & 28a-b.



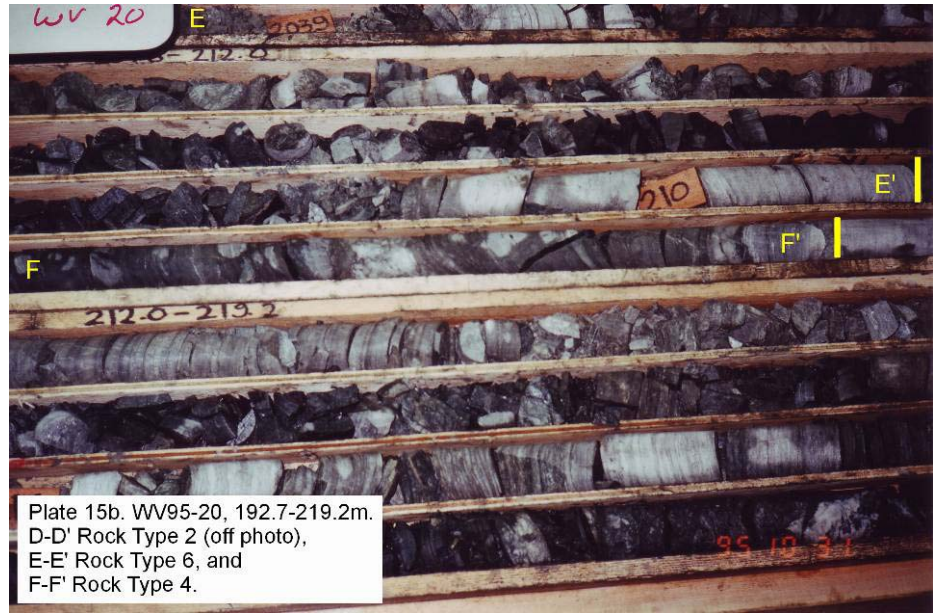


Plate 15b. WV95-20, 192.7-219.2m.
 D-D' Rock Type 2 (off photo),
 E-E' Rock Type 6, and
 F-F' Rock Type 4.



Plate 28a. WV95-20, 219.2-236.8m.
 A-A' Rock Type 2, B-B' Rock Type 6.
 (Note: Photo was poorly taken and
 so all core is not shown in plate).

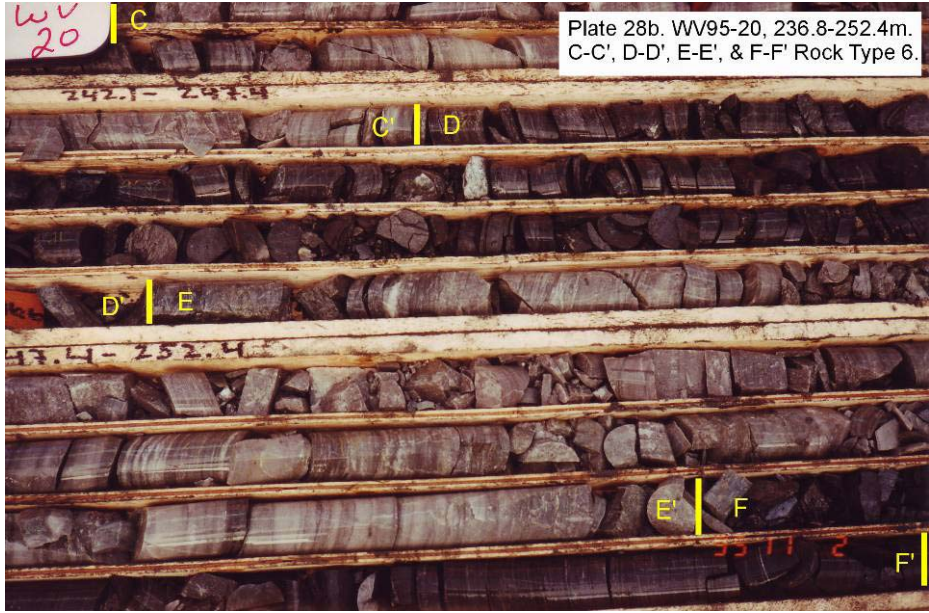


Plate 28b. WV95-20, 236.8-252.4m.
C-C', D-D', E-E', & F-F' Rock Type 6.

ALS Sample

Rock Type 1
Drill Hole WV05-174
From 182.8 m
To 184.3 m
Interval Length 001.5 m
Core Size NW
Easting 0439792 m
Northing 6811165 m

Name Aphanitic, hard, siliceous (cherty) black argillite. Often with minor tuffaceous component.

Texture Grey, very fine grained.

Mineralogy Weakly graphitic.

Structure Well foliated, intercalated with locally calcareous light grey siltstone lenses and laminae 1-3 mm thick.

Alteration 2-3% calcite.

Mineralization Trace euhedral pyrite porphyroblasts <1 mm in diameter.

Photo Plate 33a.



ALS Sample

Rock Type	2
Drill Hole	WV05-174
From	187.7 m
To	188.7 m
Interval Length	001.0 m
Core Size	NQ
Easting	0439792 m
Northing	6811165 m
Name	Carbonaceous argillites. Aphanitic, massive, carbonaceous to strongly graphitic black argillite. May or may not contain significant amounts of carbonate.
Texture	Black, very fine grained.
Mineralogy	Strongly graphitic.
Structure	Intercalated with quartz rich horizons to 6 mm thick, fault gouge occurs at the upper and lower contacts of the interval.
Alteration	
Mineralization	Containing up to 20 % disseminated pyrite.
Photo	Plate 34a.



ALS Sample

Rock Type	3
Drill Hole	A sample of the EXCP unit was sampled prior to removal in bulk of this material from the underground. The sample was taken from a muck pile during the preliminary excavation of the unit.
From	Underground Development.
To	N/A
Interval Length	N/A
Core Size	N/A
Easting	N/A
Northing	N/A
Name	Calcite-pyrite exhalite. Distinctive unit containing up to 30% fine grained pyrite within a matrix of white calcite, both occurring as swirly cm scale bands. Always occurs in the proximal hanging wall to the sulphide zone in the Wolverine stratigraphy.
Texture	N/A
Mineralogy	N/A
Structure	N/A
Alteration	N/A
Mineralization	N/A
Photo	N/A

ALS Sample

Rock Type 4
Drill Hole WV05-173
From 033.7 m
To 101.6 m
Interval Length 067.9 m
Core Size NQ
Easting 0439815 m
Northing 6811137 m

Name Magnetite iron formations and Silica-pyrite exhalite. Magnetite iron formation, commonly ranges from 10 to 80 percent disseminated to banded magnetite within a fine grained siliceous matrix. Silica dominated exhalite or chert with or without pyrite and/or calcite. Often chloritic and usually well banded. Addition of small amounts of fine carbonaceous sediments form a dark grey to black variety of this unit.

Texture Dark green-grey, fine grained.

Mineralogy

Structure Cross-cutting stringers 2-5 mm thick.

Alteration

Mineralization Locally, magnetite porphyroblasts occur up to 1 mm on contacts.

Photo Plate 35a-b.





Plate 35b. WV05-173, 095.5-110.8m.
H-H' & I-I' Rock Type 4.

WV05-173
Box: 13-15
95.5-110.8m

ALS Sample

Rock Type 5
Drill Hole WV05-174
From 86.8 m
To 88.4 m
Interval Length 01.6 m
Core Size NQ
Easting 0439815 m
Northing 6811137 m

Name Interbedded rhyolite/argillites. Intimately interbedded black argillite (carbonaceous, siliceous, tuffaceous) and massive to tuffaceous rhyolite. Ranges from cm scale interbeds to mm scale argillite bands within massive rhyolite.

Texture

Mineralogy 0.1-1.5 mm diameter quartz lapilli

Structure Intercalated dark grey argillite (1-3 cm) and light grey siliceous rhyolite (1mm).

Alteration Weak chlorite alteration in the rhyolite bands and minor secondary pyrite growth along fractures.

Mineralization Thin lenses of very fine lapilli.

Photo Plate 36a-b.



Plate 36b. WV05-174, 079.4-091.2m.
B-B' Rock Type 5.



Plate 36c. WV05-174, 091.2-103.6m.
C-C' Rock Type 5.



ALS Sample

Rock Type 6
Drill Hole WV05-174
From 114.3 m
To 116.3 m
Interval Length 002.0 m
Core Size NQ
Easting 0439815 m
Northing 6811137 m

Name Rhyolite and rhyolite fragmentals. Grey rhyolite with distinctive fragmental texture defined by wispy sub mm dark green to black anastomosing sericitic bands separating cm size felsic "fragments". Fragments are typically sub angular and irregularly shaped with jagged boundaries.

Texture White to light grey, aphanitic

Mineralogy Siliceous rock with 1-2 mm thick sericite +/- chlorite folia spaced 5-50 mm apart

Structure This interval is moderately fractured.

Alteration Locally, iron carbonate alteration imparts an orange hue to intervals of 1-2 cm. 1-2 % chlorite alteration and 1-2 % calcite alteration.

Mineralization

Photo Plate 37a.



ALS Sample	B206516	B206517	B206518	B206519	B206520
Rock Type	1	1	1	1	1
Drill Hole	WV05-188	WV-05-188	WV05-188	WV05-188	WV05-188
From	102.7 m	104.1 m	105.8 m	109.0 m	111.9 m
To	104.1 m	105.8 m	109.0 m	111.9 m	118.0 m
Interval Length	001.4 m	001.7 m	003.2 m	002.9 m	006.1 m
Core Size	NQ	NQ	NQ	NQ	NQ
Easting	0440091 m				
Northing	6810795 m				
Name	Aphanitic, hard, siliceous (cherty) black argillite. Often with minor tuffaceous component.				
Texture	Black, fine grained, and thinly laminated.				
Mineralogy	Black argillite (70%) and grey siliceous siltstone (30%).				
Structure	Well foliated with weakly graphitic partings, Dominant foliation 32-48° to core axis.				
Alteration	Fracture filling carbonate veins, pervasive, weak chlorite alteration, and 10% silicification.				
Mineralization	Pyrite, 0.1-2%, as blebs and fills fractures.				
Photo	Plate 29a-b.				





ALS Sample	B206501	B206502	B206503	B206504	B206505
Rock Type	3	3	3	3	3
Drill Hole	WV05-189	WV05-189	WV05-189	WV05-189	WV-05-189
From	186.8 m	187.2 m	188.5 m	189.6 m	190.2 m
To	187.2 m	188.5 m	189.6 m	190.2 m	191.4 m
Interval Length	000.4 m	001.3 m	001.1 m	000.6 m	001.2 m
Core Size	NQ	NQ	NQ	NQ	NQ
Easting	0440091 m				
Northing	6810795 m				
Name	Calcite-pyrite Exhalite. Distinctive unit containing up to 30% fine grained pyrite within a matrix of white calcite, both occurring as swirly cm scale bands.				
Texture	Medium grey, laminated.				
Mineralogy	Fine grained calcite with local white crystalline calcite lenses.				
Structure	Weakly foliated (38° to core axis), moderately fractured and broken, argillaceous laminae 0.5-5mm thick.				
Alteration	Chlorite alteration on fractures.				
Mineralization	Pyrite stringers and bands of porphyroblastic and interstitial pyrite mineralization.				
Photo	Plate 30a-b.				



Plate 30b. WV05-189, 189.6-211.8m.
B-B' & E-E' Rock Type 3,
C-C', D-D', & G-G' Rock Type 1,
F-F' QTZ.

WV05-189
Bx: 13-15
189.6-211.8m



ALS Sample	B206506	B206507	B206508	B206509	B206510
Rock Type	4	4	4	4	4
Drill Hole	WV05-189	WV05-189	WV05-189	WV05-189	WV05-189
From	113.2 m	114.0 m	115.0 m	116.0 m	123.7 m
To	114.0 m	115.0 m	116.0 m	116.7 m	124.4 m
Interval Length	000.8 m	001.0 m	001.0 m	000.7 m	000.7 m
Core Size	NQ	NQ	NQ	NQ	NQ
Easting	0440091 m				
Northing	6810795 m				
Name	Magnetite iron formations and Silica-pyrite exhalite. Magnetite iron formation, commonly ranges from 10 to 80 percent disseminated to banded magnetite within a fine grained siliceous matrix. Silica dominated exhalite or chert with or without pyrite and/or calcite. Often chloritic and usually well banded. Addition of small amounts of fine carbonaceous sediments form a dark grey to black variety of this unit.				
Texture	Dark grey.				
Mineralogy	Abundant magnetite, wispy stringers of porphyritic magnetite crystals (10-20%) in a siliceous microcrystalline matrix.				
Structure	Massive to banded.				
Alteration	Locally 3-5% carbonate alteration, quartz carbonate veins, and intensely chlorite altered. Localized weak hematite.				
Mineralization					
Photo	Plate 31a-b.				





ALS Sample	B206521	B206522	B206523	B206524	B206525
Rock Type	5	5	5	5	5
Drill Hole	WV05-188	WV05-188	WV05-188	WV05-188	WV05-188
From	228.9 m	230.0 m	231.4 m	233.8 m	236.4 m
To	230.0 m	231.4 m	233.8 m	236.4 m	236.9 m
Interval Length	001.1 m	001.4 m	002.4 m	002.6 m	000.5 m
Core Size	NQ	NQ	NQ	NQ	NQ
Easting	0440091 m				
Northing	6810795 m				
Name	Interbedded rhyolite/argillites. Intimately interbedded black argillite (carbonaceous, siliceous, tuffaceous) and massive to tuffaceous rhyolite. Ranges from cm scale interbeds to mm scale argillite bands within massive rhyolite.				
Texture	light green fine grained.				
Mineralogy	abundant 4-10 mm diameter. Qtz + feldspar lapilli in a chlorite + sericite matrix.				
Structure	Well foliated (48-74° to core axis).				
Alteration	Moderate pervasive chlorite alteration, moderate silicification 30%.				
Mineralization					
Photo	Plate 32a.				



ALS Sample	B206511	B206512	B206513	B206514	B206515
Rock Type	6	6	6	6	6
Drill Hole	WV05-189	WV05-189	WV05-189	WV05-189	WV05-189
From	119.3 m	120.7 m	122.0 m	124.4 m	126.5 m
To	120.7 m	122.0 m	124.4 m	126.5 m	129.9 m
Interval Length	001.4 m	001.3 m	002.4 m	002.1 m	003.4 m
Core Size	NQ				
Easting	0440091 m				
Northing	6810795 m				
Name	Rhyolite and rhyolite fragmentals. Grey rhyolite with distinctive fragmental texture defined by wispy sub mm dark green to black anastomosing sericitic bands separating cm size felsic "fragments". Fragments are typically sub angular and irregularly shaped with jagged boundaries.				
Texture	Light grey-green, fine grained, and microcrystalline with conchoidal fracture.				
Mineralogy	Sericite laminated, siliceous, with weak small magnetite crystals in laminations with chlorite and chloritic lapilli fragments, (1.5 cm, 20%) in dark argillaceous component (>50%).				
Structure	Well foliated (38° to core axis) and thinly laminated.				
Alteration	Moderate sericite alteration.				
Mineralization					
Photo	Plate 31b.				



ALS Sample

Rock Type 4
Drill Hole WV05-188
From unknown
To unknown
Interval unknown
Length
Core Size NQ
Easting 0440091 m
Northing 6810795 m

Name Magnetite iron formations and Silica-pyrite exhalite. Magnetite iron formation, commonly ranges from 10 to 80 percent disseminated to banded magnetite within a fine grained siliceous matrix. Silica dominated exhalite or chert with or without pyrite and/or calcite. Often chloritic and usually well banded. Addition of small amounts of fine carbonaceous sediments form a dark grey to black variety of this unit.

Texture Dark grey.

Mineralogy Abundant magnetite, wispy stringers of porphyritic magnetite crystals (10-20%) in a siliceous microcrystalline matrix.

Structure Massive to banded.

Alteration Locally 3-5% carbonate alteration, quartz carbonate veins, and intensely chlorite altered. Localized weak hematite.

Mineralization

NOTE: for humidity cell sample The sample of rock type 4 for the humidity cell was obtained from the interval in Plate 31a .from A-A' and from the intervals in Plate 31b between D-D' and F-F'. The exact interval was not recorded at the time of sampling.

Photo

Plate 31a-b.



Plate 31a. WV05-189, 99.2-119.3m.
A-A' Rock Type 4, B-B' Rock type 6.



Plate 31b. WV05-189, 119.3-189.6m.
C-C' & E-E' Rock Type 6,
D-D' & F-F' Rock Type 4, and
G-G' Rock Type 1.